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                  applications updated
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                  STN AnaVist, Version 1, to be discontinued
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 NEWS 19
                  WPIDS, WPINDEX, and WPIX enhanced with new
          APR 15
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                   predefined hit display formats
                   EMBASE Controlled Term thesaurus enhanced
          APR 28
 NEWS 21
                   IMSRESEARCH reloaded with enhancements
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 NEWS 22
                   INPAFAMDB now available on STN for patent family
          MAY 30
 NEWS 23
                   searching
                   DGENE, PCTGEN, and USGENE enhanced with new homology
           MAY 30
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                   sequence search option
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  NEWS 25
                   KOREAPAT updated with 41,000 documents
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           JUN 06
                   USPATFULL and USPAT2 updated with 11-character
  NEWS 27
           JUN 13
                   patent numbers for U.S. applications
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                   CA/CAplus and USPAT databases updated with IPC
  NEWS 29
           JUN 25
                   reclassification data
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07/16/2008 10/521,531

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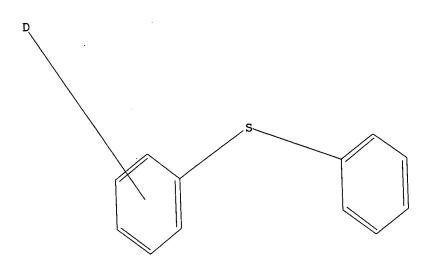
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chain nodes:
13 14
ring nodes:
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds:
5-13 9-13
ring bonds:.
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds:
5-13 9-13
normalized bonds:
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:CLASS 14:CLASS 15:Atom

L1 STRUCTURE UPLOADED

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=> s l1 full FULL SEARCH INITIATED 09:52:18 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 257915 TO ITERATE

100.0% PROCESSED 257915 ITERATIONS SEARCH TIME: 00.00.01

79 ANSWERS

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79 SEA SSS FUL L1

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COST IN U.S. DOLLARS

SINCE FILE TOTAL
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178.36 178.57

FULL ESTIMATED COST

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07/16/2008 10/521,531

reclassification data for the second quarter of 2008.

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http://www.cas.org/legal/infopolicy.html

=> s 12

46 L2 L3

=> d 13 ibib abs hitstr 1-46

ANSWER 1 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:

2008:231432 CAPLUS

DOCUMENT NUMBER:

148:426377

TITLE:

Determination of the absolute configurations of isotopically chiral molecules using vibrational

circular dichroism (VCD) spectroscopy: the

isotopically chiral sulfoxide, perdeuteriophenyl-

phenyl-sulfoxide

AUTHOR(S):

Drabowicz, Jozef; Zajac, Adrian; Lyzwa, Piotr; Stephens, Philip J.; Pan, Jian-Jung; Devlin, Frank J.

Centre of Molecular and Macromolecular Studies,

CORPORATE SOURCE:

Department of Heteroorganic Chemistry, Polish Academy

of Sciences, Lodz, 90-363, Pol.

SOURCE:

Tetrahedron: Asymmetry (2008), 19(3), 288-294

CODEN: TASYE3; ISSN: 0957-4166

PUBLISHER:

Elsevier Ltd.

DOCUMENT TYPE:

Journal

LANGUAGE:

English The (+) and (-) enantiomers of the isotopically chiral sulfoxide, perdeuteriophenyl-phenyl-sulfoxide, 1, have been synthesized by the

reaction of the diastereomers of O-menthyl benzenesulfinate with C6D5MgBr. Their absolute configurations have been determined by comparison of the

vibrational

CD (VCD) spectra of (R)-1 and (S)-1, predicted using ab initio DFT, to the exptl. VCD spectrum of 1. The absolute configuration of 1 is shown to be

(S)(+)/(R)(-). This is the first application of VCD to the determination of

the

absolute configuration of an isotopically chiral sulfoxide.

1017265-33-6P 1017265-34-7P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (absolute configurations of isotopically chiral mols. using vibrational CD (VCD) spectroscopy: isotopically chiral sulfoxide, perdeuteriophenyl-

phenyl-sulfoxide)

1017265-33-6 CAPLUS RN Benzene-1,2,3,4,5-d5, 6-[(S)-phenylsulfinyl]- (CA INDEX NAME) CN

Absolute stereochemistry. Rotation (+).

1017265-34-7 CAPLUS RN

Benzene-1,2,3,4,5-d5, 6-[(R)-phenylsulfinyl]- (CA INDEX NAME) CN

Absolute stereochemistry. Rotation (-).

$$\begin{array}{c|c} D & O \\ \vdots \\ S \\ R & Ph \\ \end{array}$$

REFERENCE COUNT:

THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS 47 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:

2007:1437488 CAPLUS

DOCUMENT NUMBER:

148:215422

TITLE:

Cyclic and multicyclic poly(ether sulfone)s by

polycondensation of 5,5',6,6'-tetrahydroxy-3,3,3',3'-

tetramethyl spirobisindane and 4,4'-

difluorodiphenylsulfone

AUTHOR(S):

Kricheldorf, Hans R.; Bornhorst, Kirstin

CORPORATE SOURCE:

Institut fuer Technische und Makromolekulare Chemie der Universitaet Hamburg, Hamburg, D-20146, Germany Journal of Polymer Science, Part A: Polymer Chemistry

SOURCE:

(2007), 45(23), 5597-5605

CODEN: JPACEC; ISSN: 0887-624X

PUBLISHER:

John Wiley & Sons, Inc.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

5.5',6,6'-Tetrahydroxy-3,3,3',3'-tetramethyl spirobisindane (TTSBI) was polycondensed with 4,4'-difluorodiphenylsulfone (DFDPS) in DMSO with K2CO3 as catalyst and azeotopic removal of water. The feed ratio of DFDPS/TTSBI was varied from 1.0/1.0 to 2.0/1.0 at concns. avoiding gelation. At feed ratios around 1.0/1.0 hyperbranched polymers were a minority and cyclic poly(ether sulfone)s were the predominant reaction products. With increasing feed ratio of DFDPS more and more multicyclic polymers were formed, and at a feed ratio of 1.9/1.0 perfect multicycles free of functional groups were the vast majority of the reaction product. Despite variation of the reaction conditions quant. conversion was not achieved. 1004993-75-2P IT

CN

RL: SPN (Synthetic preparation); PREP (Preparation) (cyclic and multicyclic poly(ether sulfone)s by polycondensation of tetrahydroxytetramethyl spirobisindane and difluorodiphenylsulfone)

1004993-75-2 CAPLUS RN ·

1,1'-Spirobi[1H-indene]-5,5',6,6'-tetrol, 2,2',3,3'-tetrahydro-3,3,3',3'tetramethyl-, polymer with 4,4'-sulfonylbis[benzene-d] (CA INDEX NAME)

CM 1

1004993-74-1 CRN C12 H8 D2 O2 S CMF

2 CM.

77-08-7 CRN C21 H24 O4 CMF

REFERENCE COUNT:

THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS 19 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2008 ACS on STN ANSWER 3 OF 46

ACCESSION NUMBER:

2007:1003746 CAPLUS

DOCUMENT NUMBER:

148:585487

TITLE:

Synthesis of 13C6, 3H, and 14C labeled Sch 414319 and

35S labeling of an analog, Sch 225336

AUTHOR(S):

Lavey, Carolee Flader; Hesk, David; Hendershot, Sharon; Koharski, David; Saluja, Surinderjit;

McNamara, Paul

CORPORATE SOURCE:

Schering-Plough Research Institute, Kenilworth, NJ,

07033, USA

SOURCE:

Journal of Labelled Compounds and Radiopharmaceuticals

(2007), 50(5-6), 264-272 CODEN: JLCRD4; ISSN: 0362-4803

PUBLISHER:

John Wiley & Sons Ltd.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Carbon-, tritium- and sulfur-labeled aryl o-phenylenedisulfones Sch 414319 AΒ

а

(1) and Sch 225336 (2), cannabinoid inverse agonists, were prepared Compds. 1 and 2 are cannabinoid inverse agonist with potential application for the treatment of psoriasis, multiple sclerosis, and rheumatoid arthritis. Three labeled forms, 1-T6, 1-13C6 1-14C were prepared for use as a standard in

mass spectrometry-based bioanal. assay and to assess metabolism, resp. The 35S-labeled mesylated analog 2 was prepared to study the binding kinetics of the CB2 receptor.

IT 1028184-39-5P 1028184-40-8P 1028184-41-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of aromatic o-phenylenedisulfone cannabinoid inverse agonists labeled with carbon and sulfur isotopes and tritium)

RN 1028184-39-5 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

RN 1028184-40-8 CAPLUS CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

RN 1028184-41-9 CAPLUS CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

IT 1028184-43-1P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of aromatic o-phenylenedisulfone cannabinoid inverse agonists labeled with carbon and sulfur isotopes and tritium)

RN 1028184-43-1 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2008 ACS on STN ANSWER 4 OF 46

7

ACCESSION NUMBER:

2006:205640 CAPLUS

DOCUMENT NUMBER:

145:433962

TITLE:

Quantification of 11C-MADAM binding to the serotonin

transporter in the human brain

AUTHOR(S):

Lundberg, Johan; Odano, Ikuo; Olsson, Hans; Halldin,

Christer; Farde, Lars

CORPORATE SOURCE:

Department of Clinical Neuroscience, Section of Psychiatry, Karolinska Institutet, Stockholm, Swed. Journal of Nuclear Medicine (2005), 46(9), 1505-1515

SOURCE:

CODEN: JNMEAQ; ISSN: 0161-5505 Society of Nuclear Medicine

PUBLISHER: Journal DOCUMENT TYPE:

English

11C-N, N-Dimethyl-2-(2-amino-4-methylphenylthio)benzylamine (11C-MADAM) is T.ANGUAGE: a newly synthesized radioligand with high selectivity and specificity for the serotonin transporter (5-HTT) in a monkey model. The purpose of this study in humans was to examine the suitability and potential of 11C-MADAM for quant. PET studies of 5-HTT in applied clin. studies on the pathophysiol. and treatment of neuropsychiatric disorders. Methods: PET examination was performed on each of 9 male subjects after i.v. injection of 11C-MADAM with high specific radioactivity. Radioactive metabolites in plasma were determined with high-performance liquid chromatog. A

metabolite-corrected

arterial input function was used in kinetic 2- and 3-compartment analyses. Cerebellum was used as the reference region in a cross-validation of 6

tissue approaches. Results: The highest radioactivity concentration was reference detected

in the raphe nuclei, followed consecutively by the striatum, hippocampal complex, cingulate cortex, neocortex, and cerebellum. The time-activity curve for the fraction of unchanged 11C-MADAM in plasma was best described by a sigmoid function. After 50 min, the fraction was 40%. The labeled metabolites were more polar than the mother compound The compartment model approaches converged, and could describe the time-activity curves in all regions. The total volume of distribution (Vt) was similar to the regional distribution vols. obtained by the linear graphic anal. The binding potentials (BPs) for 6 different approaches yielded similar values in all regions but the raphe nuclei, where the 2 equilibrium methods provided lower values. Conclusion: The regional binding distribution of 11C-MADAM is consistent with postmortem data acquired with 3H-MADAM as well as with that of other reference ligands in vitro. The time-activity curves were well described by current major quant. approaches. The suitability of the cerebellum as a reference region for nonspecific 11C-MADAM binding could be confirmed, thus paving the way for exptl. less demanding approaches, such as the simplified reference tissue model, for applied clin. studies.

IT 912931-76-1

CN

RL: DGN (Diagnostic use); PKT (Pharmacokinetics); BIOL (Biological study); USES (Uses)

(PET ligand 11C-MADAM binding to serotonin transporter in human brain)

912931-76-1 CAPLUS RN

Benzenemethanamine, 2-[(2-amino-4-methylphenyl)thio]-N,N-dimethyl-, labeled with carbon-11 (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS 39 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 5 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN ·L3

ACCESSION NUMBER:

2005:1262523 CAPLUS

DOCUMENT NUMBER:

144:23540

TITLE:

High refractive index deuterated polyimides and derivatives with good transparency, low moisture absorption and optical transmission losses, heat

resistance, and adhesion

INVENTOR(S):

Muto, Kazushige; Maesawa, Tsuneaki; Ito, Nobuhiro; Watahiki, Tsutomu; Hirota, Kosaku; Sajiki, Hironao

Wako Pure Chemical Industries, Ltd., Japan

PATENT ASSIGNEE(S):

PCT Int. Appl., 71 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT N | 10. | | | KINI |) | DATE | • | 1 | APPL | CAT: | ON 1 | 10. | | D# | ATE | |
|----------|------|-----|-----|------|-----|------|------------|------------|------------|------------|------------|------------|------------|-----|------|-----|
| WO 2005 | 1136 | 46 | | A1 | - | 2005 | 1201 | 7 | WO 2 | 005- | JP89 | 84 | | 20 | 0050 | 517 |
| W: | AE, | AG, | CR. | CU. | CZ, | DE, | DK, | DM, | DZ, | EC, | ΕE, | EG, | ES, | FΊ, | GB, | GD, |
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MK, | KG,
MN, | KM,
MW, | MX, | MZ, | NA, |

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             SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
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             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
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     EP 1754739
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PRIORITY APPLN. INFO.:
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Ι

II

GI '

AB Title polyimides useful as the raw material of polymers for optical waveguides have a deuterated structure I obtained by ring-closure reaction of deuterated polyamic acid II produced by reacting an optionally deuterated acid anhydride with a deuterated diamine, wherein R1 = tetravalent alicyclic or aromatic hydrocarbon group which may be deuterated; and R2 = deuterated divalent aromatic hydrocarbon group; and m, n = ≥1 integer. Thus, 20 g o-tolidine and 680 mL D20 were reacted in the presence of 2 g 10% Pd/C and 4 g 5% Pt/C at 80° for 24 h, 10 mmol of which was polymerized with 10 mmol pyromellitic anhydride at 25° for 2 h to give a deuterated polyamic acid with eight average mol. weight 168,000, 10% solution of the resulting copolymer was cast onto a glass, heated at 200° for 1 h and 300° for 1 h to give a deuterated polyimide.

870284-75-6P
RL: IMF (Industrial manufacture); RCT (Reactant); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

CN

(high refractive index deuterated polyimides and derivs. with good transparency, low moisture absorption and optical transmission losses, heat resistance, and adhesion)

870284-75-6 CAPLUS RN

1H, 3H-Benzo[1,2-c:4,5-c']difuran-1,3,5,7-tetrone, polymer with 4,4'-sulfonylbis[benzen-2,3,5,6-d4-amine] (9CI) (CA INDEX NAME)

1 CM

CRN · 557794-38-4 CMF C12 H4 D8 N2 O2 S

CM 2

89-32-7 CRN CMF C10 H2 O6

870284-76-7P 870284-83-6P 870284-84-7P IT

870284-85-8P 870284-86-9P 870284-87-0P

870284-88-1P 870284-91-6P 870284-96-1P

870284-97-2P 870286-98-9P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material

use); PREP (Preparation); USES (Uses)

(high refractive index deuterated polyimides and derivs. with good transparency, low moisture absorption and optical transmission losses, heat resistance, and adhesion)

870284-76-7 CAPLUS RN

CN

Poly[(5,7-dihydro-1,3,5,7-tetraoxobenzo[1,2-c:4,5-c']dipyrrole-2,6(1H,3H)diyl)-1,4-phenylene-2,3,5,6-d4-sulfonyl-1,4-phenylene-2,3,5,6-d4] (9CI) (CA INDEX NAME)

RN 870284-83-6 CAPLUS
CN 1,3-Isobenzofurandione, 5,5'-carbonylbis-, polymer with
5,5'-sulfonylbis[benzen-2,3,4,6-d4-amine] (9CI) (CA INDEX NAME)

CM 1

CRN 870284-82-5 CMF C12 H4 D8 N2 O2 S

CM 2

CRN 2421-28-5 CMF C17 H6 O7

RN 870284-84-7 CAPLUS

Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl)carbonyl(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)-1,3-phenylene-2,4,5,6-d4-sulfonyl-1,3-phenylene-2,4,5,6-d4] (9CI) (CA INDEX NAME)

RN 870284-85-8 CAPLUS
CN Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl)carbonyl(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)-1,4-phenylene-2,3,5,6-d4-sulfonyl-1,4-phenylene-2,3,5,6-d4] (9CI) (CA INDEX NAME)

RN 870284-86-9 CAPLUS
CN 1,3-Isobenzofurandione, 5,5'-carbonylbis-, polymer with
4,4'-sulfonylbis[benzen-2,3,5,6-d4-amine] (9CI) (CA INDEX NAME)

CM 1

CRN 557794-38-4 CMF C12 H4 D8 N2 O2 S

CM 2

CRN 2421-28-5 CMF C17 H6 O7

RN 870284-87-0 CAPLUS
CN [5,5'-Biisobenzofuran]-1,1',3,3'-tetrone, polymer with
4,4'-sulfonylbis[benzen-2,3,5,6-d4-amine] (9CI) (CA INDEX NAME)

CM 1

CRN 557794-38-4 CMF C12 H4 D8 N2 O2 S

CM 2

CRN 2420-87-3 CMF C16 H6 O6

RN 870284-88-1 CAPLUS CN Poly[(1,1',3,3'-tetrahydro-1,1',3,3'-tetraoxo[5,5'-bi-2H-isoindole]-2,2'-diyl)-1,4-phenylene-2,3,5,6-d4-sulfonyl-1,4-phenylene-2,3,5,6-d4] (9CI) (CA INDEX NAME) CN

RN 870284-91-6 CAPLUS

Poly[(1,3-dihydro-1,3-dioxo-2H-isoindole-2,5-diyl)oxy(1,3-dihydro-1,3-dioxo-2H-isoindole-5,2-diyl)-1,4-phenylene-2,3,5,6-d4-sulfonyl-1,4-phenylene-2,3,5,6-d4] (9CI) (CA INDEX NAME)

RN 870284-96-1 CAPLUS

CN Cyclobuta[1,2-c:3,4-c']difurantetrone, tetrahydro-, polymer with 4,4'-sulfonylbis[benzen-2,3,5,6-d4-amine] (9CI) (CA INDEX NAME)

CM 1

CRN 557794-38-4 CMF C12 H4 D8 N2 O2 S

10/521,531

CN

CN

CM

4415-87-6 CRN C8 H4 O6 CMF

870284-97-2 CAPLUS RN

Poly[(octahydro-1,3,4,6-tetraoxocyclobuta[1,2-c:3,4-c']dipyrrole-2,5-diyl)-1,4-phenylene-2,3,5,6-d4-sulfonyl-1,4-phenylene-2,3,5,6-d4] (9CI) (CA INDEX NAME)

870286-98-9 CAPLUS RN

1,3-Isobenzofurandione, 5,5'-oxybis-, polymer with 4,4'-sulfonylbis[benzen-2,3,5,6-d4-amine] (9CI) (CA INDEX NAME)

CM 1

557794-38-4 CRN

C12 H4 D8 N2 O2 S CMF

2 CM

1823-59-2 CRN CMF C16 H6 O7

557794-38-4P 870284-82-5P IT

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT

(Reactant or reagent)

(monomer; high refractive index deuterated polyimides and derivs. with good transparency, low moisture absorption and optical transmission losses, heat resistance, and adhesion)

557794-38-4 CAPLUS RN

Benzen-2,3,5,6-d4-amine, 4,4'-sulfonylbis- (9CI) (CA INDEX NAME) CN

870284-82-5 CAPLUS RN

Benzen-2,3,4,6-d4-amine, 5,5'-sulfonylbis- (9CI) (CA INDEX NAME) CN

REFERENCE COUNT:

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 6 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

6

2005:1218389 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

143:469300

TITLE:

Multistep index plastic optical fiber

Sasaki, Hiroki; Iwasaki, Osamu INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

DATE APPLICATION NO. KIND DATE PATENT NO. JP 2004-140894 20040511 20051117 Α JP 2005321686 20040511 JP 2004-140894 PRIORITY APPLN. INFO.: The invention relates to a multistep index plastic optical fiber (POF) comprising coaxially placed ≥ 3 core layers made of an amorphous polymer composition that contains no C-H bonds and the cladding layer surrounding the core layers, wherein the distribution of the n's among the cores mimics that of GI-POF. 180802-01-1 IT RL: DEV (Device component use); MOA (Modifier or additive use); USES (multistep index plastic optical fiber) 180802-01-1 CAPLUS RN Benzene-d5, 6,6'-thiobis- (9CI) (CA INDEX NAME) CN

$$\begin{array}{c|c} D & D & D \\ \hline D & D & D \\ \hline \end{array}$$

ANSWER 7 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:

2005:760273 CAPLUS

DOCUMENT NUMBER:

143:367265

TITLE:

Metalation of sulfoxides in the benzodiazine series.

Diazines. Part 44

AUTHOR(S):

Le Fur, Nicolas; Mojovic, Ljubica; Ple, Nelly; Turck,

Alain; Marsais, Francis

CORPORATE SOURCE:

Laboratoire de Chimie Organique Fine et

Heterocyclique, IRCOF-INSA de Rouen, UMR CNRS 6014,

Mont-Saint-Aignan, F-76131, Fr.

SOURCE:

Tetrahedron (2005), 61(37), 8924-8931

CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER:

Elsevier B.V.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 143:367265

The metalation of 12 benzodiazine sulfoxide derivs. was tested. AB reaction was effective with 3-(sulfinyl)cinnoline derivs., 5-(phenylsulfinyl)-2-(tert-butyl)quinazoline and 8-[(tert-butyl)sulfinyl]-2-(tert-butyl)-4(3H)-quinazolinone. The reaction of 2-[(tertbutyl) sulfinyl] quinoxaline did not yield the desired products.

866226-56-4P IT

RL: SPN (Synthetic preparation); PREP (Preparation) (study of metalation of (tert-butyl) (phenylsulfinyl) quinazoline and subsequent electrophile trapping)

866226-56-4 CAPLUS RN

Quinazoline-6-d, 2-(1,1-dimethylethyl)-5-(phenylsulfinyl)- (9CI) CN INDEX NAME)

REFERENCE COUNT:

THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:

2005:487863 CAPLUS

DOCUMENT NUMBER:

143:34887

TITLE:

Diphenylsulfide-containing polymers with low light transmission loss, good heat resistance, and high transmission band for optical components and plastic

optical fibers

INVENTOR(S):

Sasaki, Hiroki; Hatano, Seiji Fuji Photo Film Co., Ltd., Japan

SOURCE:

GΙ

Jpn. Kokai Tokkyo Koho, 21 pp. CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT ASSIGNEE(S):

| PATENT NO. | KIND DATE | | APPLICATION NO. | DATE | | |
|---|-----------|-----------|--------------------------------------|----------|--|--|
| лр 2005145861 |
А | 20050609 |
JP 2003-383953
JP 2003-383953 | 20031113 | | |
| PRIORITY APPLN. INFO.: OTHER SOURCE(S): | MARPAT | 143:34887 | | | | |

Title polymers are obtained from diphenylsulfide compds. I, wherein X, Y = H, deuterium (D), or halogen; Z = H, D, Me, CD3, CF3, or halogen; and L, R = H, D, or substituent. Thus, 0.11 mol 4-mercaptophenol and 0.1 mol iodobenzene were reacted for 8 h, 0.05 mol of the resulting 4-phenylthiophenol was reacted with 0.055 mol acryloyl chloride to give 4-phenylthiophenoxy acrylate, which was mixed with Me methacrylate by varying composition, poured into a polymethyl methacrylate-coated KF 850 (polyvinylidene fluoride) tube with thickness 1 mm, inner diameter 22 mm, and length 30 cm, and polymerized at 80° while rotating the tube to give a hollow optical fiber preform with refractive index 1.420 in the cross

IT

CN

section direction (clad part), 1.490 (outer core part), and 1.490 - 1.501 (inner core part), which was stretched at 220-260° to give an optical fiber with light transmission loss 190 dB/km at 650 nm, transmission band 1.8 GHz, and glass transition temperature (core) 120°. 852952-00-2P 852952-02-4P

RL: DEV (Device component use); IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(inner core layer; preparation of di-Ph sulfide-containing polymers with low light transmission loss, good heat resistance, and high transmission band for optical components and plastic optical fibers)

852952-00-2 CAPLUS RN

2-Propenoic-3,3-d2 acid, 2-(methyl-d3)-, methyl-d3 ester, polymer with 4-(phenyl-d5-thio)phenyl-2,3,5,6-d4 2-(methyl-d3)-2-propenoate-3,3-d2 (CA INDEX NAME)

1 CM

CRN 852951-99-6 C16 D14 O2 S CMF

2 CM

35233-69-3 CRN C5 D8 O2 CMF

852952-02-4 CAPLUS RN2-Propenoic-3,3-d2 acid, 2-(methyl-d3)-, 4-[(pentafluorophenyl)thio]phenyl-CN 2,3,5,6-d4 ester, polymer with 2,2,2-trifluoroethyl-1,1-d2 2-(methyl-d3)-2-propenoate-3,3-d2 (9CI) (CA INDEX NAME)

1 CM

852952-01-3 CRN C16 D9 F5 O2 S CMF

2 CM

697757-81-6 CRN C6 D7 F3 O2 CMF

ANSWER 9 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN L3

ACCESSION NUMBER:

2004:405174 CAPLUS

DOCUMENT NUMBER:

141:54314

TITLE:

Synthesis of 2-(arylthio)-3'-(alkyl- or

dialkylamino)diphenyl sulfides via 5-arylthianthrenium perchlorates and their complexations with silver(I)

and lead(II) ions

AUTHOR(S):

Yoon, Kyongho; Kim, Kab Sig; Kim, Kyongtae

CORPORATE SOURCE:

School of Chemistry and Molecular Engineering, Seoul

National University, Seoul, 151-742, S. Korea

SOURCE:

ARKIVOC (Gainesville, FL, United States) (2003), (12),

138-163

CODEN: AGFUAR

URL: http://www.arkat-usa.org/ark/journal/2003/Shine/H

s-868J/HS-868J.pdf

Arkat USA Inc.

DOCUMENT TYPE:

PUBLISHER:

Journal; (online computer file)

English LANGUAGE:

OTHER SOURCE(S):

CASREACT 141:54314

GΙ

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Treatment of 5-arylthianthrenium perchlorates with secondary alkylamines AB in the presence of LDA in THF at reflux gave 2-(arylthio)-31-(dialkylamino) diphenyl sulfides I as major products along with 2-(arylthio)-2'-(dialkylamino)diphenyl sulfides and thianthrene. latter two compds. were formed depending on the structures of amines employed and the concns. of LDA. It has been found that the methoxy groups of I [X = MeO, Y = H; R = NPr2 (II), morpholine, piperidine (III)] were displaced by amide ions in the presence of excess amts. of LDA to give the corresponding 2-(4-dialkylaminophenylthio)-3'-(dialkylamino) diphenyl sulfides. The reactions with aza-15-crown-5, aza-18-crown-6, and 7, 16-diaza-18-crown-6 gave analogous products via a benzyne intermediate. The affinity of selected metal cations for compds. I [X = MeO, Y = H, R = NEt2 (IV), NBu2 (V), H (VI), N(iPr)2 (VII)], II,III, VIII (X = MeO, iPrO), and IX was examined by an extraction method. dialkylamino groups of II-V increased somewhat the extractive abilities of Ag+ ion (14 - 28%) compared with that of VI (8%), whereas compound VII having a diisopropylamino group showed low (9%) and high (67%) extractive abilities toward Ag+ and Pb2+ ions, resp. Compds. VIII having an aza-18-crown-6 moiety showed 67% and 66% extractive abilities toward Pb2+ but 40% and 24% extractive abilities towards Ag+ ions, resp. However, compound IX with two identical lariats showed high (86%) and low (12%) extractive abilities toward Ag+ and Pb2+ ions, resp.

709037-02-5P. IT

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of (arylthio)-(alkyl- or dialkylamino)diphenyl sulfides via amination of arylthianthrenium perchlorates and evaluation of their extractive ability for metal cations)

709037-02-5 CAPLUS RN

Benzene-d, 2-[[2-[(4-methoxyphenyl)thio]phenyl]thio]- (9CI) (CA INDEX CN

709037-03-6P IT

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of (arylthio)-(alkyl- or dialkylamino)diphenyl sulfides via amination of arylthianthrenium perchlorates and evaluation of their extractive ability for metal cations)

709037-03-6 CAPLUS

RN Benzene-d, 2-[[2-[(4-methoxyphenyl)sulfonyl]phenyl]sulfonyl]- (9CI) CN INDEX NAME)

REFERENCE COUNT:

THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS 27 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 10 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:

2004:346166 CAPLUS

DOCUMENT NUMBER:

141:47132

TITLE:

Selectivity of 3H-MADAM binding to 5-hydroxytryptamine transporters in vitro and in vivo in mice; correlation

with behavioral effects

AUTHOR(S):

Larsen, A. K.; Brennum, L. T.; Egebjerg, J.; Sanchez,

C.; Halldin, C.; Andersen, P. H.

CORPORATE SOURCE:

Department of Disease Biology, H. Lundbeck A/S, Valby,

DK-2500, Den.

SOURCE:

British Journal of Pharmacology (2004), 141(6),

1015-1023

CODEN: BJPCBM; ISSN: 0007-1188

PUBLISHER:

Nature Publishing Group

DOCUMENT TYPE:

Journal

English LANGUAGE: Binding of the novel radioligand 3H-2-(2-dimethylaminomethylphenylsulfanyl)-5-methylphenylamine (3H-MADAM) to the serotonin transporter (SERT) was used to characterize a range of selective serotonin reuptake inhibitors (SSRIs) in vitro and in vivo. 3H-MADAM bound with high affinity in a saturable manner to both human SERT expressed in CHO cells (Kd=0.20 nM (pKd=9.74 \pm 0.12), Bmax=35 \pm 4 fmol mg-1 protein) and mouse cerebral cortex membranes (Kd=0.21 nM (pKd=9.66±0.10), $Bmax=50\pm24$ fmol mg-1 protein). Binding of 3H-MADAM was highly selective for SERT in vitro as demonstrated by the in vitro profile of MADAM tested at 75 different receptors, ion channels and transporters. This was further substantiated by the pharmacol. profile of the binding. Hence, the binding of 3H-MADAM was potently inhibited by SSRIs but not by selective inhibitors of noradrenaline transport and dopamine transport. Likewise, a 5-HT2A/2C receptor antagonist did not inhibit 3H-MADAM binding. 3H-MADAM binding in vivo was inhibited only by compds. which also inhibited the binding of 3H-MADAM in vitro (the SSRIs, mixed SERT/noradrenaline transport inhibitors and clomipramine), confirming the selectivity of 3H-MADAM for SERT also in vivo. Moreover, compds. effective in inhibiting 3H-MADAM binding were the only ones found to be active in the mouse 5-HTP potentiation test confirming the model as a behavioral correlate to in vivo 5-HT uptake. Finally, it was found that a SERT occupancy of 85-95% was necessary to produce 50% of the maximum behavioral response (ED50).

708273-12-5 IT RL: PAC (Pharmacological activity); PRP (Properties); BIOL (Biological study)

(selectivity of 3H-MADAM binding to 5-hydroxytryptamine transporters in vitro and in vivo in mice and correlation with behavioral effects)

708273-12-5 CAPLUS RN

Benzenemethanamine, 2-[(2-amino-4-methylphenyl)thio]-N,N-dimethyl-, CN labeled with tritium (9CI) (CA INDEX NAME)

$$NH_2$$
 CH_2-NMe_2

REFERENCE COUNT:

THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS 43 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 11 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:

2003:190689 CAPLUS

DOCUMENT NUMBER:

139:100895

TITLE:

Synthesis of deuterated 4,4'-diaminodiphenylsulfone

(Dapsone) and related analogs

AUTHOR(S):

Gannett, Peter M.; Johnson, Edward M., II; Grimes, Michael A.; Myers, Alan L.; Deavers, Robert E., III;

Tracy, Timothy S.

CORPORATE SOURCE:

Department of Basic Pharmaceutical Sciences, School of

Pharmacy, West Virginia University, Morgantown, WV,

26506-9530, USA

SOURCE:

Journal of Labelled Compounds & Radiopharmaceuticals

(2003), 46(2), 107-114 CODEN: JLCRD4; ISSN: 0362-4803

John Wiley & Sons Ltd. PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

Journal English

OTHER SOURCE(S):

CASREACT 139:100895

A general scheme for the synthesis of 4,4'-diaminodiphenylsulfone-d5 (Dapsone) from aniline-d5 is described. The method may have general application and the preparation of the related analogs, 4,4'dimethylaminodiphenyl sulfone from aniline-d5 and 4,4'-dimethoxydiphenyl sulfone from phenol-d5, is also described.

557794-37-3P 557794-42-0P IT

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(hydrolytic deprotection of; preparation of deuterated diaminodiphenylsulfone and related analogs using deuterated aniline and phenol as starting compds.)

557794-37-3 CAPLUS RN

Acetamide, N,N'-[sulfonyldi(4,1-phenylene-2,3,5,6-d4)]bis- (9CI) CN INDEX NAME)

RN 557794-42-0 CAPLUS CN Acetamide, N,N'-[sulfonyldi(4,1-phenylene-2,3,5,6-d4)]bis[N-methyl- (9CI) (CA INDEX NAME)

IT 557794-36-2P 557794-41-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (oxidation of; preparation of deuterated diaminodiphenylsulfone and related analogs using deuterated aniline and phenol as starting compds.)

RN 557794-41-9 CAPLUS
CN Acetamide, N,N'-[sulfinyldi(4,1-phenylene-2,3,5,6-d4)]bis[N-methyl- (9CI)
(CA INDEX NAME)

557794-44-2P IT

RL: SPN (Synthetic preparation); PREP (Preparation) (oxidation of; preparation of deuterated diaminodiphenylsulfone and related analogs using deuterated aniline and phenol as starting compds.)

RN 557794-44-2 CAPLUS

Benzene-1,2,4,5-d4, 3,3'-sulfinylbis[6-methoxy- (9CI) (CA INDEX NAME) CN

557794-45-3P IT

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(preparation of deuterated diaminodiphenylsulfone and related analogs using

deuterated aniline and phenol as starting compds.)

557794-45-3 CAPLUS RN

Benzene-1,2,4,5-d4, 3,3'-sulfonylbis[6-methoxy- (9CI) (CA INDEX NAME) CN

557794-38-4P 557794-43-1P IT

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of deuterated diaminodiphenylsulfone and related analogs using deuterated aniline and phenol as starting compds.)

557794-38-4 CAPLUS RN

Benzen-2,3,5,6-d4-amine, 4,4'-sulfonylbis- (9CI) (CA INDEX NAME) CN

557794-43-1 CAPLUS (CA INDEX NAME) RNBenzen-2,3,5,6-d4-amine, 4,4'-sulfonylbis[N-methyl- (9CI) CN

REFERENCE COUNT:

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 12 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

9

ACCESSION NUMBER:

2002:975678 CAPLUS

DOCUMENT NUMBER:

138:55870

TITLE:

Regioselective preparation of organotitanium compounds

and polysubstituted benzenes and pyridines

INVENTOR(S):

Sato, Fumie

PATENT ASSIGNEE(S):

Nissan Chemical Industries, Ltd., Japan

Jpn. Kokai Tokkyo Koho, 33 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------------------------------|----------|----------------------|---------------------------------|---------------------------|
|
JP 2002371085
US 20030096996 | A
A1 | 20021226
20030522 | JP 2001-182554
US 2001-13453 | 20010615
20011213 |
| US 6743916
US 20040167344 | B2
A1 | 20040601
20040826 | US 2004-786150 | 20040226 |
| US 7125999 PRIORITY APPLN. INFO.: | В2 | 20061024 | JP 2001-182554
US 2001-13453 | A 20010615
A3 20011213 |
| OTHER SOURCE(S): | CASRE | ACT 138:5587 | | |

OTHER SOURCE(S):

GΙ

The title compds. I [R1, R2 = C1-20 alkyl, C3-20 alkenyl, C1-6 alkoxy, C1-6 alkoxycarbonyl, etc.; R3, R4 = H, C1-20 alkyl, C1-6 alkoxy, C1-6 AB alkoxycarbonyl, C1-6 alkylaminocarbonyl, di(C1-6 alkyl)aminocarbonyl, etc.; R5 = H, C1-20 alkyl, (un) substituted phenyl; Z = CR', N; R' = H, C1-20 alkyl; X6 = halo, C1-6 alkoxy, phenoxy, naphthoxy, etc.; Xp, Xq = halo, (un) substituted C1-6 alkoxy, phenoxy, naphthoxy; m = 0-1] or II (R1-R5, Z, X6, m Xp, Xq = same as I) are prepared by reaction of R1C.tplbond.CR2 (R1, R2 = same as I) with TiX1X2X3X4 [X1-X4 = halo, (un) substituted C1-6 alkoxy, phenoxy, naphthoxy], RMgX5 (R = C2-8 alkyl having H at β -position; X5 = halo), R3C.tplbond.CR4 (R3, R4 = same as I), and Z.tplbond.C(CHR5)mX6 (R5, m, X6 = same as I). Reaction of I and II, which were formed in situ, with electrophilic reagents such as aqueous HCl, O2, D2O, I2, CO2, PhCHO, etc., gives polysubstituted benzene and pyridine derivs. E.g., tert-Bu 2-nonynoate was reacted with isopropylmagnesium chloride and Ti(OPr-iso)4 in Et20 at -50° for 5 h and mixed with p-toluenesulfonylacetylene at room temperature for 3 h and quenched with aqueous HCl to give 50% [3-(tert-butoxycarbonyl)-4-hexylphenyl] p-tolyl sulfone.

IT 360774-74-9P 360774-75-0P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
(Preparation)

(regioselective preparation of polysubstituted benzenes and pyridines by cycloaddn. of acetylenes in using Ti compds. and Grignard reagents)

RN 360774-74-9 CAPLUS CN Benzene-d, 4,5-dibutyl-2-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)

RN 360774-75-0 CAPLUS CN Benzoic-4-d acid, 2-hexyl-5-[(4-methylphenyl)sulfonyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

ANSWER 13 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:

2002:970771 CAPLUS

DOCUMENT NUMBER:

139:62507

TITLE:

Internal standard signal suppression by co-eluting

analyte in isotope dilution LC-ESI-MS

AUTHOR(S):

Sojo, Luis E.; Lum, Gina; Chee, Priscilla

CORPORATE SOURCE:

Axelson BioPharma Research Inc., Burnaby, BC, V5G 1K5,

SOURCE:

Analyst (Cambridge, United Kingdom) (2003), 128(1),

51-54

CODEN: ANALAO; ISSN: 0003-2654 Royal Society of Chemistry

PUBLISHER: DOCUMENT TYPE:

Journal

English

The suppression of the internal standard by increasing concns. of the LANGUAGE: co-eluting analyte in calibration series and plasma samples analyzed by AB LC-ESI-MS was studied using the isotope dilution technique. A series of three analyte/deuterated analyte pairs including fexofenadine/d6fexofenadine, dapsone/d4-dapsone and pseudoephedrine/d3-ephedrine were investigated. Suppression of the internal standard signal was noticed in extracted plasma samples containing fexofenadine and d6-fexofenadine as

standard, as well as in solvent based calibration solns. of the three pair of internal compds. noted above during LC-ESI-MS anal. at flow rates greater than 100 μL min-1. This signal suppression effect was described by invoking Enke's model of electrospray ion generation. This model suggests that signal suppression can be ascribed to the competition between ionic species for charged surface sites present on the generated droplets during the electrospray process. The slopes of the calibration curves of the three analytes were close to unity (fexofenadien/d6-fexofenadine 0.964±0.008, pseudoephedrine/d3-ephedrine 1.02±0.080 and dapsone/d4-dapsone 0.905 ± 0.048) as predicted by the model, indicating that quantitation should not be affected by the variation in the peak area of the internal standard

548783-72-8, d4-Dapsone IT

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (internal standard signal suppression by co-eluting analyte in human plasma samples analyzed by isotope dilution LC-ESI-MS)

548783-72-8 CAPLUS RN

Benzen-2,6-d2-amine, 4,4'-sulfonylbis- (9CI) (CA INDEX NAME) CN

$$\begin{array}{c|c} & & & D & & D \\ H_2N & & & & \\ D & & & \\ D & & & \\ D & & & \\ \end{array}$$

REFERENCE COUNT:

THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS 16 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2008 ACS on STN ANSWER 14 OF 46 L3

ACCESSION NUMBER:

2001:519718 CAPLUS

DOCUMENT NUMBER:

135:241952 Metalative Reppe Reaction. Organized Assembly of

Acetylene Molecules on Titanium Template Leading to a

New Style of Acetylene Cyclotrimerization

AUTHOR(S):

TITLE:

Suzuki, Daisuke; Urabe, Hirokazu; Sato, Fumie

Departments of Biomolecular Engineering and Biological CORPORATE SOURCE:

Information Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology, Midori-ku Yokohama Kanagawa, 226-8501, Japan Journal of the American Chemical Society (2001),

SOURCE:

123(32), 7925-7926

CODEN: JACSAT; ISSN: 0002-7863

American Chemical Society PUBLISHER:

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 135:241952

Three different, unsym. acetylenes and one mol. of $(\eta 2\text{-propene})\text{Ti}(0\text{-i-}$ Pr)2 are combined together in a highly controlled manner to give acetylene AB trimers. E.g., reaction of Me3CO2CC.tplbond.CC6H13, 1-octyne, and (η2-propene) Ti(O-i-Pr)2, followed by addition of ethynyl p-tolyl sulfone, gave benzene derivative I after hydrolysis.

360774-74-9P 360774-75-0P IT

RL: SPN (Synthetic preparation); PREP (Preparation) (metalative Reppe reaction of acetylene mols. on titanium template)

360774-74-9 CAPLUS RN

Benzene-d, 4,5-dibutyl-2-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX CN NAME)

$$\begin{array}{c|c} & & & \\ &$$

360774-75-0 CAPLUS RN

Benzoic-4-d acid, 2-hexyl-5-[(4-methylphenyl)sulfonyl]-, 1,1-dimethylethyl CN (CA INDEX NAME) ester (9CI)

REFERENCE COUNT:

THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2008 ACS on STN ANSWER 15 OF 46 L3

38

ACCESSION NUMBER:

2001:395827 CAPLUS

DOCUMENT NUMBER:

135:129780

TITLE:

35Cl NQR and 2H NMR analysis of the critical dynamics by approaching from above the normal-incommensurate phase transition of bis(4-chlorophenyl)-sulfone (BCPS) Odin, C.; Meinel, C.; Etrillard, J.; Ollivier, J.;

AUTHOR(S):

Toudic, B.

CORPORATE SOURCE:

GMCM, Univ. Rennes I, Rennes, F-35042, Fr. Ferroelectrics (2001), 250(1-4), 75-78

SOURCE:

CODEN: FEROA8; ISSN: 0015-0193

PUBLISHER:

Gordon & Breach Science Publishers

DOCUMENT TYPE:

LANGUAGE:

Journal English

The inverse of the NQR or NMR spin lattice relaxation time of BCPS AB exhibits a Landau like critical behavior on approaching the normal/incommensurate phase transition from above. This critical behavior is interpreted as the contribution from the central peak observed in neutron expts. within the framework of the model of a coupling of the soft mode to pure relaxation modes. This result would be consistent with a central peak of dynamical nature.

IT 102438-60-8

RL: PEP (Physical, engineering or chemical process); PROC (Process) (spin-lattice relaxation study of normal-incommensurate phase transition of)

102438-60-8 CAPLUS RN

Benzene-1,2,4,5-d4, 3,3'-sulfonylbis[6-chloro- (9CI) (CA INDEX NAME) CN

REFERENCE COUNT:

SOURCE:

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS 6 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2008 ACS on STN ANSWER 16 OF 46

2000:323540 CAPLUS ACCESSION NUMBER:

133:83338

Uranium(VI) Sulfilimine Complexes: A New Class of DOCUMENT NUMBER: TITLE:

Nitrogen, Analogues of the Uranyl Ion

Williams, V. Cliff; Mueller, Matthias; Leech, Michael AUTHOR(S):

A.; Denning, Robert G.; Green, Malcolm L. H.

Inorganic Chemistry Laboratory, University of Oxford, CORPORATE SOURCE:

Oxford, OX1 3QR, UK

Inorganic Chemistry (2000), 39(12), 2538-2541

CODEN: INOCAJ; ISSN: 0020-1669

American Chemical Society PUBLISHER:

Journal DOCUMENT TYPE: English LANGUAGE:

[Ph4P][UOC14(NSPh2)] was prepared in high yield from [Ph4P][UOC15] and Ph2S:NSiMe3. An x-ray structure of this compound shows that the U atom has AΒ a pseudooctahedral geometry with O and N atoms in trans positions. The structure of the analogous phosphoriminato complex [Ph4P][UOC14(NPPh3)] was determined for comparison. Derivatization of the sulfide group shows that only a limited range of functionalization confers stability toward reduction The emission spectrum of the 1st electronic excited state reveals a greatly reduced energy compared with that of the uranyl ion. This red shift in the transition is consistent with the weakening of the U-N bond relative to the U-O bond.

278606-24-9P IT

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and NMR)

278606-24-9 CAPLUS RN

Phosphonium, tetraphenyl-, (OC-6-1,1)-tetrachloro[S,S-di(phenyl-CN d5)sulfiliminato-kN]oxouranate(1-) (9CI) (CA INDEX NAME)

CM 1

278606-23-8 CRN

C12 C14 D10 N O S U CMF

CCS CCI

2 CM

CRN 18198-39-5 CMF C24 H20 P

278606-26-1 IT

RL: RCT (Reactant); RACT (Reactant or reagent) (reactant for preparation of uranate sulfilimine oxo complexes)

278606-26-1 CAPLUS RN

Sulfilimine, S,S-di(phenyl-d5)-N-(trimethylsilyl)- (9CI) (CA INDEX NAME) CN

REFERENCE COUNT:

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS 23 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 17 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:

1999:143259 CAPLUS

DOCUMENT NUMBER:

130:272291

TITLE:

Highly Mobile Solvent Holes in Viscous Squalane

Solutions As Detected by Quantum Beats and MARY Spectroscopy Techniques. [Erratum to document cited in

CA127:253377]

AUTHOR(S):

Usov, Oleg M.; Stass, Dmitrii V.; Tadjikov, Boris M.;

Molin, Yuri N.

CORPORATE SOURCE:

Institute Chem. Kinetics and Combustion, Novosibirsk,

630090, Russia

SOURCE:

Journal of Physical Chemistry A (1999), 103(11), 1690

CODEN: JPCAFH; ISSN: 1089-5639

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal English

LANGUAGE:

On page 7713, right column, line 15 from the top, "Expressions 3 and 4" , AB should be replaced by "Expressions 4 and 5". On page 7714, left column, line 9 from the top, "expression 7" should read "expression 8". Correspondingly, in the same column, lines 15 and 16 from the bottom, instead of "eqs 3 and 4", it should be "eqs 4 and 5". In the right column, line 22 from the top, "expression 4" should be substituted by "expression 5". On page 7715, left column, line 1 from the top, "eq 3" should read "eq 4".

180802-01-1, Diphenylsulfide-d10 TΤ

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

(highly mobile solvent holes in viscous squalane solns. as detected by quantum beats and MARY spectroscopy techniques (Erratum))

180802-01-1 CAPLUS RN

(CA INDEX NAME) Benzene-d5, 6,6'-thiobis- (9CI) CN

$$\begin{array}{c|c} D & D & D \\ \hline D & D & D \\ \hline \end{array}$$

ANSWER 18 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:

1998:684171 CAPLUS

DOCUMENT NUMBER:

129:347476

ORIGINAL REFERENCE NO.:

129:70645a,70648a

TITLE:

Direct Observation of a Phason Gap in an

Incommensurate Molecular Compound

AUTHOR(S):

Ollivier, J.; Etrillard, J.; Toudic, B.; Ecolivet, C.;

Bourges, P.; Levanyuk, A. P.

CORPORATE SOURCE:

UMR au CNRS 6626, Groupe Matiere Condensee et

Materiaux, Universite de Rennes 1, Campus de Beaulieu,

Rennes, 35042, Fr.

SOURCE:

Physical Review Letters (1998), 81(17), 3667-3670

CODEN: PRLTAO; ISSN: 0031-9007

PUBLISHER:

American Physical Society

07/16/200816/07/2008 Page 36

Journal DOCUMENT TYPE: English LANGUAGE:

The results of an inelastic neutron scattering study of the lattice AB vibration spectra in the normal and incommensurate phases of (ClC6D4)2SO2 are reported. Because of unusually low soft mode damping, a finite value of the phason frequency at the satellite position is observed for the first The soft mode frequency saturation in the normal phase and this phason gap are consistent with the dynamical nature of the observed central peak.

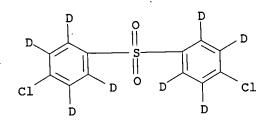
102438-60-8 ΙT

RL: PRP (Properties)

(direct observation of phason gap in incommensurate phase of)

102438-60-8 CAPLUS RN

Benzene-1,2,4,5-d4, 3,3'-sulfonylbis[6-chloro- (9CI) (CA INDEX NAME) CN



THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS 29 REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 19 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN L3

1998:513415 CAPLUS ACCESSION NUMBER:

129:241003 DOCUMENT NUMBER:

129:48955a ORIGINAL REFERENCE NO .:

Disposition of diphenyl sulfoxide in rat TITLE: Mitchell, S. C.; Gillham, J.; Jackson, W. F. M.; AUTHOR(S):

Preston, S. L.; Porter, E. R.; Zhang, A. Q.

Molecular Toxicology, Division of Biomedical Sciences, CORPORATE SOURCE:

Imperial College School of Medicine, London, W2 1PG,

Xenobiotica (1998), 28(7), 715-722 SOURCE:

CODEN: XENOBH; ISSN: 0049-8254

Taylor & Francis Ltd. PUBLISHER:

Journal DOCUMENT TYPE: English LANGUAGE:

Radiolabeled di-Ph sulfoxide (U-14C- or 35S-) was administered by gavage (1.0 mmol/kg body weight) to the adult male Wistar rat following an overnight fast. For both labeled forms feces was the major route of excretion of radioactivity (50 %) with substantial amts. still being voided during the third and fourth days (13 %). Urinary elimination (42 %) was similar during the first (20 %) and second (17 %) days and a small amount of radioactivity (7 %) was found within the carcass after 4 days. Plasma data showed a peak concentration at 40 min (tmax), a distribution half-life of

2 h (t1/2 α) and an elimination half-life of 22.5 h (t1/2 β). Biliary studies revealed that 16 % of the dose traversed the bile duct during the first day with nearly half of this being excreted in the first 8 h. From urinary data, metabolism occurred via ring hydroxylation with subsequent conjugate formation. Oxidation of the sulfur to form the sulfone also took place. No evidence for sulfoxide reduction, cleavage of the ring

structures or exclusion of the sulfur was obtained. 69490-45-5P IT RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process) (disposition of di-Ph sulfoxide in rat) RN 69490-45-5 CAPLUS Benzene, 1,1'-sulfinylbis-, labeled with carbon-14 (9CI) (CA INDEX NAME) CN Ph-S-Ph THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS 23 REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT ANSWER 20 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN 1998:61481 CAPLUS ACCESSION NUMBER: 128:167109 DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 128:32932h,32933a Study of a fraction of spin-correlated pairs in TITLE: radiation spurs by the methods of time-resolved magnetic field effects and quantum beats Anishchik, S. V.; Usov, O. M.; Anisimov, O. A.; Molin, AUTHOR(S): Yu. N. Institute of Chemical Kinetics and Combustion, CORPORATE SOURCE: Novosibirsk, 630090, Russia Radiation Physics and Chemistry (1997), Volume Date SOURCE: 1998, 51(1), 31-36 CODEN: RPCHDM; ISSN: 0969-806X Elsevier Science Ltd. PUBLISHER: DOCUMENT TYPE: Journal English LANGUAGE: The fractions $\Theta\beta$ and $\Theta\chi$ of spin-correlated singlet radical-ion pairs in alkane solns. irradiated by eta-particles and X-rays were got from expts. on magnetic field effect and quantum beats in recombination fluorescence. The ratio $@\beta/@\chi$ values of 1.3-2.8 for the solvent series studied were found both from magnetic effect and quantum beats. The Monte Carlo calcns. were made to explain the variations of $\Theta\beta/\Theta\chi$ in different solvents. The high value of $\Theta\beta/\Theta\Theta = 2.8$ for isooctane is probably due both to large separation between ions in pair and to high concentration of neutral radical in the spur. 180802-01-1 RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process) (spin-correlated pairs in alkane solution irradiated by β -particles and x-rays) 180802-01-1 CAPLUS RNBenzene-d5, 6,6'-thiobis- (9CI) (CA INDEX NAME) CN

$$\begin{array}{c|c} D & D & D \\ \hline D & D & D \\ \hline \end{array}$$

REFERENCE COUNT:

THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS 25 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 21 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:

1997:780055 CAPLUS

DOCUMENT NUMBER:

128:109790

ORIGINAL REFERENCE NO.: TITLE:

128:21369a,21372a

NMR structural analysis of incommensurate modulated

systems with multiple active symmetry modes: A case

study of deuterated bis(4-chlorophenyl)sulfone

AUTHOR(S):

Meinel, C.; Zimmermann, H.; Haeberlen, U.; Etrillard,

CORPORATE SOURCE:

AG Molekulkristalle, Max-Planck-Institut fur

Medizinische Forschung, Jahnstrasse 29, Heidelberg, 69

120, Germany

SOURCE:

Physical Review B: Condensed Matter (1997), 56(21),

13774-13784

CODEN: PRBMDO; ISSN: 0163-1829

American Physical Society

DOCUMENT TYPE:

PUBLISHER:

Journal English

LANGUAGE:

Single-crystal deuteron NMR measurements both in the normal (N) and the incommensurate (IC) phase are reported for (4-ClC6H4)2SO2 (I). From the quadrupole-splitting data obtained in the N phase, the quadrupole coupling (QC) tensors of all deuterons in I are derived. The deuteron NMR frequency distributions observed in the IC phase were analyzed as a function of the orientation of the applied magnetic field relative to the I crystal. This anal. is carried out in terms of the amplitudes and phases of the rotational-symmetry modes that contribute to the fundamental IC modulation wave in I, i.e., directly in terms of the structural changes associated with the IC phase transition. Both a semiquant. graphical, and a fully quant. numerical approach are given. The former is used to identify particularly simple and therefore particularly informative crystal orientations. The latter uses as an input the deuteron QC tensors measured in the N phase. Quant. and complete structural information about the rotational displacements that atoms experience in an N-IC phase transition is deduced from NMR spectra. These results are in full agreement with the corresponding data from x-ray diffraction. Measurements of the spin-lattice relaxation time T1 across the deuteron NMR frequency distributions are also reported. The results are at variance with the established theory, and this is traced back to the fact

in I. 102438-60-8 201361-64-0 IT

RL: PRP (Properties)

(NMR structural anal. of incommensurate modulated systems with multiple active symmetry modes in deuterated bis(chlorophenyl)sulfone)

that multiple rotational modes are contributing to the IC modulation wave

102438-60-8 CAPLUS RN

Benzene-1,2,4,5-d4, 3,3'-sulfonylbis[6-chloro- (9CI) (CA INDEX NAME) CN

201361-64-0 CAPLUS RN

Benzene-1,3-d2, 2,2'-sulfonylbis[5-chloro- (9CI) (CA INDEX NAME) CN

REFERENCE COUNT:

THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS 19 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 22 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:

1997:623515 CAPLUS

DOCUMENT NUMBER:

127:253377

ORIGINAL REFERENCE NO.:

127:49413a,49416a

TITLE:

Highly Mobile Solvent Holes in Viscous Squalane Solutions As Detected by Quantum Beats and MARY

Spectroscopy Techniques

AUTHOR(S):

Usov, Oleg M.; Stass, Dmitrii V.; Tadjikov, Boris M.;

Molin, Yuri N.

CORPORATE SOURCE:

Institute of Chemical Kinetics and Combustion,

Novosibirsk, 630090, Russia

SOURCE:

Journal of Physical Chemistry A (1997), 101(42),

7711-7717

CODEN: JPCAFH; ISSN: 1089-5639

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

English

LANGUAGE: The quantum beats and magnetic field effect on the reaction yield spectroscopy techniques were employed to study the formation of di-Ph sulfide radical cations in squalane solns. under ionizing irradiation It is demonstrated that the precursors of di-Ph sulfide radical cations are short-lived primary solvent radical cations (holes) with the ESR spectrum narrowed by the resonance charge transfer reaction. The rate constant of hole scavenging by di-Ph sulfide mols. was measured directly and amts. to 6.1 + 109 M-1 s-1, exceeding the diffusion-controlled one several times. The obtained value is well in line with the data on pulse radiolysis of squalane solns. with optical monitoring of the highly mobile precursor, supporting the hypothesis about the hole nature of the latter. 180802-01-1, Diphenylsulfide-d10 IT

CN

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

(highly mobile solvent holes in viscous squalane solns. as detected by quantum beats and MARY spectroscopy techniques)

180802-01-1 CAPLUS RN

Benzene-d5, 6,6'-thiobis- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} D & D & D \\ \hline D & D & D \\ \hline \end{array}$$

REFERENCE COUNT:

THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS 28 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 23 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN L3

ACCESSION NUMBER:

1997:575138 CAPLUS

DOCUMENT NUMBER:

127:242227

ORIGINAL REFERENCE NO.:

127:47099a,47102a

TITLE:

Spin relaxation parameters in recombining radical ion

pair (diphenylsulfide-d10)+/(p-terphenyl-d14)obtained by ODESR and quantum beats techniques

AUTHOR(S):

Bagryansky, Victor A.; Usov, O. M.; Lukzen, N. N.;

Molin, Y. N.

CORPORATE SOURCE:

Inst. Chemical Kinetics Combustion, Novosibirsk,

630090, Russia

SOURCE:

Applied Magnetic Resonance (1997), 12(4), 505-512

CODEN: APMREI; ISSN: 0937-9347

PUBLISHER:

Springer Journal

DOCUMENT TYPE:

LANGUAGE:

English

Parameters of paramagnetic relaxation were determined by OD (optically AB detected) ESR and quantum beats techniques for a recombining pair of radical ions (DPS-d10)+/(PTP-d14)- (perdeuterated diphenylsulfide/p-terphenyl) in n-hexane, isooctane, cis-decalin, and squalane solns. T2 relaxation time determined by quantum beats technique is independent of solvent viscosity and magnetic field strength at 170-9600 G. These data agree with the results obtained by ODESR technique assuming fast T1 relaxation for radical cation. Neglecting the contribution of radical anion relaxation T1c = T2c .simeq. 50 ns was obtained for (DPS-d10)+.

180802-01-1 IT

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

(spin relaxation parameters in recombining radical ion pair (diphenylsulfide-d10)+/(p-terphenyl-d14)- obtained by ODESR and quantum beats techniques)

180802-01-1 CAPLUS RN

Benzene-d5, 6,6'-thiobis- (9CI) (CA INDEX NAME) CN

$$\begin{array}{c|c} D & D & D \\ \hline D & D & D \\ \hline \end{array}$$

ANSWER 24 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN L3

1997:120693 CAPLUS ACCESSION NUMBER:

126:199238 DOCUMENT NUMBER:

126:38515a,38518a ORIGINAL REFERENCE NO.:

Determination of a fraction of spin-correlated radical TITLE:

ion pairs in irradiated alkanes by quantum oscillation

technique

Usov, O. M.; Grigoryants, V. M.; Tadjikov, B. M.; AUTHOR(S):

Molin, Yu. N.

Institute of Chemical Kinetics and Combustion, CORPORATE SOURCE:

Novosibirsk, 630090, Russia

Radiation Physics and Chemistry (1997), 49(2), 237-243 SOURCE:

CODEN: RPCHDM; ISSN: 0146-5724

Elsevier PUBLISHER: Journal DOCUMENT TYPE: English LANGUAGE:

Amplitudes of quantum oscillations observed in the recombination fluorescence of the (diphenylsulfide-d10)+/(p-terphenyl-d14)- radical ion pairs in AB alkane solns. have been used to estimate a fraction of spin-correlated singlet pairs Θ in the radiation track. Θ Values of 0.36 - 0.54 for the solvent series studied were found. Values for a fraction of singlet recombinations fs (0.52-0.66), calculated from Θ values, are in satisfactory agreement with those available from literature. It has been observed that Θ and fs values decrease with increasing solvent viscosity (from n-hexane to cis-decalin).

180802-01-1, Diphenylsulfide-d10 IT

RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)

(hole acceptor; determination of fraction of spin-correlated radical ion

pairs

in irradiated alkanes by quantum oscillation technique)

180802-01-1 CAPLUS RN

Benzene-d5, 6,6'-thiobis- (9CI) (CA INDEX NAME) CN

07/16/2008 10/521,531

AUTHOR(S):

ANSWER 25 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

1997:74017 CAPLUS ACCESSION NUMBER:

126:205300 DOCUMENT NUMBER:

126:39579a,39582a ORIGINAL REFERENCE NO.:

Application of quantum oscillation technique for TITLE:

determination of the fraction of singlet

spin-correlated radical ion paris during radiolysis Usov, O. M.; Grigor'yants, V. M.; Tadzhikov, B. M.;

Molin, Yu. N.

Inst. Khim. Kinet. Gorenya, RAN, Novosibirsk, Russia

Doklady Akademii Nauk (1996), 349(6), 780-782 CORPORATE SOURCE: SOURCE:

CODEN: DAKNEQ; ISSN: 0869-5652

MAIK Nauka PUBLISHER: Journal DOCUMENT TYPE:

Quantum oscillation technique was applied for determination of the fraction of Russian LANGUAGE: singlet spin-correlated radical ion pairs and ratio of their singlet- and AΒ

triplet recombination channels in ionizing radiation spurs.

180802-01-1, Diphenylsulfide-d10 RL: PEP (Physical, engineering or chemical process); PROC (Process) IT

(application of quantum oscillation technique for determination of fraction

singlet spin-correlated radical ion pairs produced in radiolysis) οf

180802-01-1 CAPLUS RN Benzene-d5, 6,6'-thiobis- (9CI) (CA INDEX NAME) CN

$$\begin{array}{c|c} D & D & D \\ \hline D & D & D \\ \hline \end{array}$$

ANSWER 26 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN L3

1996:369372 CAPLUS ACCESSION NUMBER:

125:180266 DOCUMENT NUMBER:

125:33533a,33536a ORIGINAL REFERENCE NO.:

Phase shift of quantum oscillations in the recombination luminescence of spin-correlated radical TITLE:

ion pairs Grigoryants, V. M.; Tadzhikov, B. M.; Usov, O. M.;

AUTHOR(S): Molin, Yu. N.

Institut Khimicheskoi Kinetiki i Goreniya,

CORPORATE SOURCE: Novosibirsk, Russia

Doklady Akademii Nauk (1996), 346(4), 478-481 SOURCE:

CODEN: DAKNEQ; ISSN: 0869-5652

MAIK Nauka PUBLISHER: Journal

DOCUMENT TYPE: Russian

The phase shift of quantum oscillations of luminescence was observed in the LANGUAGE: recombination of singlet-correlated radical ion pairs of di-Ph sulfide and p-terphenyl ((DPS-d10)+/(PTP-d14)-). The shift is caused by the delay of (DPS-d10)+ appearance in the reaction of isooctane holes with (DPS-d10)

mol. As a result the rate constant of isooctane hole capture by (DPS-d10) mol. was obtained as $(3.5\pm1)\cdot1010$ M-1·s-1.

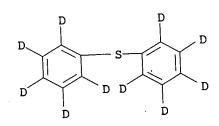
IT

RL: PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)

(hole acceptor; phase shift of quantum oscillations in recombination luminescence of spin-correlated radical ion pairs)

180802-01-1 CAPLUS RN

Benzene-d5, 6,6'-thiobis- (9CI) (CA INDEX NAME) CN



ANSWER 27 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN L3

ACCESSION NUMBER:

1995:961799 CAPLUS

DOCUMENT NUMBER:

124:17740

ORIGINAL REFERENCE NO .:

124:3283a,3286a

TITLE:

Phase shift of quantum oscillations in the

recombination luminescence of spin-correlated radical

ion pairs

AUTHOR(S):

Grigoryants, V. M.; Tadjikov, B. M.; Usov, O. M.;

Molin, Yu. N.

CORPORATE SOURCE:

Institute of Chemical Kinetics and Combustion,

Novosibirsk, 630090, Russia

SOURCE:

IT

Chemical Physics Letters (1995), 246(4,5), 392-8

CODEN: CHPLBC; ISSN: 0009-2614

PUBLISHER:

Elsevier Journal

DOCUMENT TYPE:

English

The phase shift of quantum oscillations observed in the recombination LANGUAGE: fluorescence of the (diphenylsulfide-d10)+/ (p-terphenyl-d14)- radical ion pair in isooctane has been detected exptl. The shift is caused by the delay in (diphenylsulfide-d10)+ formation in the reaction of solvent holes with a diphenylsulfide mol. Comparison with a theor. model has given for the rate constant of isooctane hole capture by diphenylsulfide mols. the value (3.5 ± 1) +1010 M-1 s-1 which exceeds the diffusion-controlled one. The fraction of singlet-correlated pairs in the track has been estimated from the oscillation amplitude to be approx. 35%.

171438-38-3

(phase shift of quantum oscillations in recombination luminescence of RL: PRP (Properties) spin-correlated radical ion pairs)

171438-38-3 CAPLUS

Benzene-d5, 6,6'-thiobis-, radical ion(1+) (9CI) (CA INDEX NAME) RN CN

$$\begin{array}{c|c} D & D & D \\ \hline D & D & D \\ \hline \end{array}$$

ANSWER 28 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN L3

ACCESSION NUMBER:

1995:542338 CAPLUS

DOCUMENT NUMBER:

123:144131

ORIGINAL REFERENCE NO .:

123:25685a,25688a

TITLE:

Regioselective ortho substitution of diphenyl sulfoxide chromium tricarbonyl: complementary stereoselectivities for the mono- and di-anions

Davies, Stephen G.; Loveridge, Tracey; Clough, John M.

Dyson Perrins Laboratory, University Oxford, Oxford,

OX1 3QY, UK

CORPORATE SOURCE:

Journal of the Chemical Society, Chemical

Communications (1995), (8), 817-18 CODEN: JCCCAT; ISSN: 0022-4936

Royal Society of Chemistry

PUBLISHER:

AUTHOR(S):

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

OTHER SOURCE(S):

Journal English

CASREACT 123:144131

GΙ

The mono- and di-anions derived from di-Ph sulfoxide Cr tricarbonyl I and Li diisopropylamide show complementary stereoselectivities in their AΒ reactions with electrophiles (D+, MeI, Me3SiCl).

166192-33-2P 166192-35-4P 166192-38-7P IT

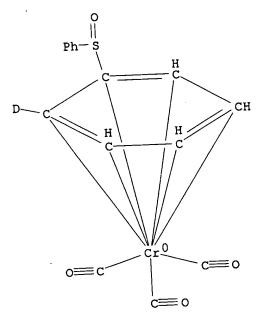
Ι

RL: SPN (Synthetic preparation); PREP (Preparation) (complementary stereoselectivities for mono- and di-anions in regioselective ortho substitution of di-Ph sulfoxide chromium tricarbonyl)

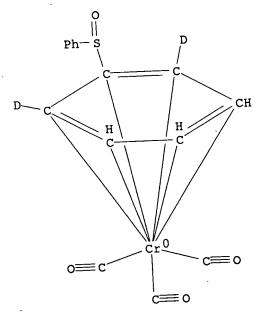
Chromium, tricarbonyl[$(1,2,3,4,5,6-\eta)-2-(phenylsulfinyl)benzene-d]-,$ RN CN stereoisomer (9CI) (CA INDEX NAME)

07/16/2008

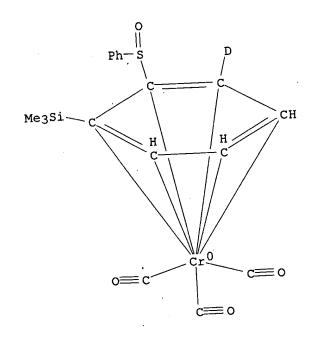
10/521,531



RN 166192-35-4 CAPLUS
CN Chromium, tricarbonyl[(1,2,3,4,5,6-η)-2-(phenylsulfinyl)benzene-1,3-d2]- (9CI) (CA INDEX NAME)



RN 166192-38-7 CAPLUS
CN Chromium, tricarbonyl[trimethyl[(1,2,3,4,5,6-η)-2(phenylsulfinyl)phenyl-3-d]silane]-, stereoisomer (9CI) (CA INDEX NAME)



CAPLUS COPYRIGHT 2008 ACS on STN ANSWER 29 OF 46

1994:667538 CAPLUS ACCESSION NUMBER:

121:267538 DOCUMENT NUMBER:

ORIGINAL REFERENCE NO.:

Effect of Through-Space Interaction on the Photolytic 121:48629a,48632a Desulfurization or Deselenization and Intramolecular TITLE:

Cyclization Reactions of 1,9-Disubstituted

Dibenzochalcogenophenes Kimura, Takeshi; Ishikawa, Yasuhiro; Ueki, Kensaku; AUTHOR(S):

Horie, Yoji; Furukawa, Naomichi

Department of Chemistry, University of Tsukuba, CORPORATE SOURCE:

Tsukuba, 305, Japan Journal of Organic Chemistry (1994), 59(23), 7117-24 SOURCE:

CODEN: JOCEAH; ISSN: 0022-3263

Journal DOCUMENT TYPE:

English

CASREACT 121:267538 LANGUAGE:

1,9-Dithia and 1,9-diselena substituents in dibenzochalcogenophenes (I) OTHER SOURCE(S): are in close proximity within the van der Waals S-S and Se-Se contacts and hence have a strong through-space interaction. Photolysis of the compds.

(I) with a 400 W high-pressure mercury lamp in benzene produces

triphenyleno[4,5-bcd]chalcogenophenes (II) and tribenzo[bc,e,hi][2,7]dichalcogenaazulenes (III) in high yields, except for the dibenzofuran derivative, via photoexcitation, sequential desulfurization or deselenization, and intramol. cyclization. In the reaction, 1,9-bis(phenylthio)dibenzofuran (Ie) exhibits lower reactivity as compared with other dibenzothiophene and dibenzoselenophene derivs. The X-ray crystallog. anal. of 1,9-bis(phenylseleno)dibenzoselenophene (Ia), 1,9-bis(phenylseleno)dibenzothiophene (Ib), and 1,9-

bis (phenylthio) dibenzoselenophene (Ic) demonstrated that their structures are distorted as is also that of 1,9-bis(phenylthio)dibenzothiophene (Id), while dibenzofuran derivative Ie was found to be a nearly planar mol. The structure and reactivity relationship of compds. Ia-e was examined in the

photolytic reactions by comparing their interheteroat. distances at the 1,9 positions and their oxidation potentials. Furthermore, compds. Ia-e afforded the corresponding monosulfoxides and bis-sulfoxides on oxidation with m-chloroperbenzoic acid which were photolyzed readily to give also II and III.

149416-95-5 149416-96-6 IT

RL: RCT (Reactant); RACT (Reactant or reagent)

(photochem. desulfurization, deselenization and intramol. cyclization reactions of 1,9-disubstituted dibenzochalcogenophenes)

Dibenzothiophene, 1,9-bis(phenyl-2-d-thio)- (9CI) (CA INDEX NAME) RN CN

CN

RN

Dibenzoselenophene, 1,9-bis(phenyl-2-d-thio)- (9CI) (CA INDEX NAME)

CAPLUS COPYRIGHT 2008 ACS on STN ANSWER 30 OF 46 1994:457251 CAPLUS L3

ACCESSION NUMBER:

121:57251

DOCUMENT NUMBER:

121:10320h,10321a

ORIGINAL REFERENCE NO.: TITLE:

Simple preparation of sterically congested

1,9-disubstituted dibenzothiophenes and formation of

their dithia dications via transannular S-S

interaction

Kimura, Takeshi; Horie, Yoji; Ogawa, Satoshi;

AUTHOR(S): Furukawa, Naomichi

Dep. Chem., Univ. Tsukuba, Tsukuba, 305, Japan

Heteroatom Chemistry (1993), 4(2-3), 243-52

CODEN: HETCE8; ISSN: 1042-7163

DOCUMENT TYPE:

CORPORATE SOURCE:

Journal

LANGUAGE:

source:

English

Page 48 07/16/200816/07/2008

07/16/2008

OTHER SOURCE(S):

CASREACT 121:57251

GI

4,6-Disubstituted thianthrene-5-oxides reacted with n-butyllithium to afford sterically crowded 1,9-disubstituted dibenzothiophenes (I; R1 = R2 AΒ = SPh, SC6H4Me-4, SMe, etc.; R2 = H, R1 = SPh, SC6H4Me-4) in moderate yields. The structures of the phenylthio derivative I (R1 = R2 = SPh) and its monooxide II were determined by x-ray crystallog. anal., which revealed that the distances between the two outer sulfur atoms are 3.012 ${\rm \AA}$ (in I) and 3.016 Å (in II). I and their monoxides afforded the corresponding dithia dications on dissoln. in concentration sulfuric acid. The lower

potentials of I compared with other dibenzothiophene derivs. reveal evidence for strong transannular interaction between the two outer sulfur atoms.

IT

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

Dibenzothiophene, 1,9-bis(phenyl-2-d-thio)- (9CI) (CA INDEX NAME) 149416-95-5 CAPLUS RNCN

ANSWER 31 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN 1994:217054 CAPLUS

ACCESSION NUMBER:

120:217054 DOCUMENT NUMBER:

120:38520h,38521a

Studies on dynemicin. A nonradical cycloaromatization ORIGINAL REFERENCE NO.: TITLE:

pathway for the azabicyclo[7.3.1]enediyne core

structure initiated by thiolate addition

Magnus, Philip; Eisenbeis, Shane A.; Rose, William C.;

Zein, Nada; Solomon, Wyle

AUTHOR(S): Dep. Chem. Biochem., Univ. Texas, Austin, TX, 78712, CORPORATE SOURCE:

Journal of the American Chemical Society (1993), SOURCE:

115(26), 12627-8

07/16/2008

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE:

LANGUAGE:

Journal English

GI

The azabicyclododecenediyne I (R = R1 = H) and its derivs. I (R = R1 = H)CO2CH2CH2Cl, CO2Me, adamantyloxycarbonyl, r1 = H) undergo Bergman cycloaromatization via a polar, non-radical pathway. I (R = R1 = H, OMe) AΒ have antitumor activity in mice against P388 leukemia with T/C ratios of 175 and 170% resp. at 2mg/kg. I (R = R1 = H) was 350 times more potent than I (R = adamantyloxycarbonyl, R1 = H) against HCT116 human colon carcinoma, demonstrating that diradical formation is not required for antitumor activity.

IT

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

Carbamic acid, [2-[8-[(3,5-dimethylphenyl)thio]-1-hydroxy-2-naphthalenyl-RNCN

4,7-d2]phenyl]-, tricyclo[3.3.1.13,7]dec-1-yl ester (9CI) (CA INDEX NAME)

CAPLUS COPYRIGHT 2008 ACS on STN ANSWER 32 OF 46 L3

ACCESSION NUMBER:

1993:517398 CAPLUS

DOCUMENT NUMBER:

119:117398

ORIGINAL REFERENCE NO.:

119:21123a,21126a

TITLE:

Photochemical synthesis and electrochemical behavior

07/16/2008

of triphenyleno[4,5-bcd]thiophene and

triphenyleno[4,5-bcd]selenophene derivatives Kimura, Takeshi; Ishikawa, Yasuhiro; Furukawa,

Naomichi

AUTHOR(S): Dep. Chem., Univ. Tsukuba, Tsukuba, 305, Japan CORPORATE SOURCE:

Heterocycles (1993), 35(1), 53-6

CODEN: HTCYAM; ISSN: 0385-5414

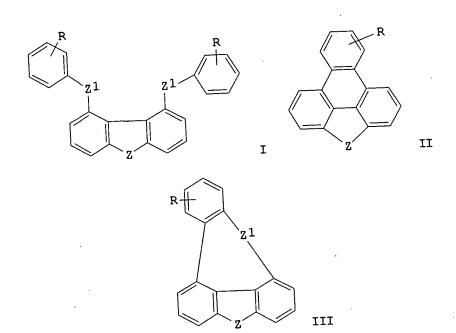
Journal DOCUMENT TYPE:

English LANGUAGE:

CASREACT 119:117398 OTHER SOURCE(S):

GΙ

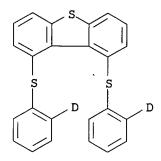
SOURCE:



Photolysis of 1,9-bis(arylthio)dibenzothiophenes (I, e.g., Z=Z1=S, R=H, o-D, o-Me, p-Me, p-Cl) afforded corresponding triphenyleno[4,5-AΒ bcd]thiophenes II and tribenzo[bc,e,hi][2,7]dithiaazulenes III. A deuterium tracer experiment revealed that this reaction proceeded intramolecularly. Photolysis of 1,9-bis(arylseleno)dibenzoselenophene I (Z = Z1 = Se, R = H) afforded II (Z = Se, R = H) in 81% yield. The oxidation potentials of compds. II and III were measured by cyclic voltammetry.

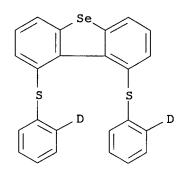
149416-95-5 149416-96-6 RL: RCT (Reactant); RACT (Reactant or reagent) IT (intramol. photochem. cyclization of)

Dibenzothiophene, 1,9-bis(phenyl-2-d-thio)- (9CI) (CA INDEX NAME) RN CN



RN149416-96-6 CAPLUS

CNDibenzoselenophene, 1,9-bis(phenyl-2-d-thio) - (9CI) (CA INDEX NAME)



ANSWER 33 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:

1993:254809 CAPLUS

DOCUMENT NUMBER:

118:254809

ORIGINAL REFERENCE NO.:

118:44277a,44280a

TITLE:

Synthesis of multiple carbon-14-labeled

2,6-dichloro-3-nitrobenzoic acid and its incorporation

in the synthesis of [14C]CI-958, a potential

anticancer agent

AUTHOR(S):

Huang, C. C.; Hicks, J. L.; Showalter, H. D. H.

CORPORATE SOURCE:

Dep. Chem., Warner-Lambert Co., Ann Arbor, MI, USA Synth. Appl. Isot. Labelled Compd. 1991, Proc. Int.

SOURCE:

Symp., 4th (1992), Meeting Date 1991, 187-92. Editor(s): Buncel, Erwin; Kabalka, George Walter.

Elsevier: Amsterdam, Neth.

DOCUMENT TYPE:

CODEN: 58MNAG Conference

LANGUAGE:

English

GΙ

AΒ CI-958 (I), a broad spectrum anticancer compound was multiple-labeled with carbon-14 using labeled 2,6-dichloro-3-nitrobenzoic acid as the key intermediate. [U-14C] benzene was dinitrated, reduced, diazotized, and subsequently chlorinated to give labeled 1,3-dichloro[U-14C]benzene. Metalation followed by carboxylation with 14CO2 produced the benzoic acid. Nitration yielded 2,6-dichloro-3-nitro[U-14C,carboxy-14C]benzoic acid. This was coupled with 3-methoxybenzenethiol and cyclized to give the [14C]-labeled 9H-thioxanthen-9-one II. Reaction with N,N-diethyl-2hydrazinoethanamine gave the substituted 2H-[1]benzothiopyrano[4,3,2cd]indazole III. The 5-nitro group was reduced, and the 8-methoxy was deprotected to give the 5-amino-N, N-diethyl-8-hydroxy-[10b-14C]2H-[1]benzothiopyrano[4,3,2-ce]-[U-14C]indazole-2-ethanamine dihydrobromide IV. The latter was coupled with N-triphenylmethylglycine activated with 1,1'-carbonyldiimidazole and the resulting amide was reduced, then deprotected to give [14C]-I.

IT 147710-76-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and intramol. Friedel-Crafts acylation of, by thioxoanthenone from)

RN 147710-76-7 CAPLUS

CN Benzoic-carboxy-14C acid, 6-chloro-2-[(3-methoxyphenyl)thio]-3-nitro-, labeled with carbon-14 (9CI) (CA INDEX NAME)

L3 ANSWER 34 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:

1988:112391 CAPLUS

DOCUMENT NUMBER:

108:112391

ORIGINAL REFERENCE NO.:

108:18409a,18412a

TITLE:

Fluorinated tricyclic neuroleptics with prolonged

action: derivatives and analogs of 2-[4-(7-fluoro-2-isopropyl-10,11-

dihydrodibenzo[b,f]thiepin-11-yl]piperazine-1-

yl) ethanol

AUTHOR(S):

Protiva, Miroslav; Jilek, Jiri; Rajsner, Miroslav; Sindelar, Karel; Bartl, Vaclav; Ryska, Miroslav; Koruna, Ivan; Holubek, Jiri; Svatek, Emil; et al. Res. Inst. Pharm. Biochem., Prague, 130 60/3, Czech.

CORPORATE SOURCE: SOURCE:

Collection of Czechoslovak Chemical Communications

(1987), 52(7), 1811-33

CODEN: CCCCAK; ISSN: 0366-547X

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Ι

OTHER SOURCE(S):

CASREACT 108:112391

GI

AB Esterification of the neuroleptic agent, isofloxythepin, I (R = OH) (II) with Ac2O, decanoic acid, and 3,4,5-(MeO)3C6H2COCl gave esters, e.g., I (R = OAc) (III). Various analogs of II, e.g., I (R = CH2OH) (IV) and I (R = 1,3-dioxan-2-yl) (V) were also prepared Pharmacol. testing of the analogs and derivs. of II for discoordinating and cataleptic activities showed very intensive and long-lasting effects for III, IV and V. I [R = O2C(CH2)8Me] has properties of a depot neuroleptic agent.

IT 113305-65-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of, dibenzothiepinone derivative from)

RN 113305-65-0 CAPLUS

CN Benzeneacetic acid, 4-fluoro-2-[[4-(1-methylethyl)phenyl-2,3,5,6-d4]thio]-(9CI) (CA INDEX NAME)

$$\begin{array}{c|c} D & CH_2-CO_2H \\ \hline \\ i-Pr & D \\ \hline \end{array}$$

ANSWER 35 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:55575 CAPLUS

DOCUMENT NUMBER: 108:55575

ORIGINAL REFERENCE NO.: 108:9269a,9272a

TITLE: Charge-transfer photooxygenation of sulfides in a

cryogenic oxygen matrix. IR spectroscopic observation

of persulfoxides

AUTHOR(S): Akasaka, Takeshi; Yabe, Akira; Ando, Wataru

CORPORATE SOURCE: Dep. Chem., Univ. Tsukuba, Sakura, 305, Japan SOURCE:

Journal of the American Chemical Society (1987),

109(26), 8085-7

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 108:55575

AB The photochem. reactions of MeSPh, Ph2S, and 3thiatricyclo[3.2.1.02,4]octane (I) in an oxygen matrix at 13 K were studied. The UV-visible absorption spectra reveal a contact charge-transfer (CT) band with a broad maximum at ca. 300 nm. The reaction intermediates resulting from UV irradiation (300-400 nm) of the contact CT band were studied by FT-IR spectroscopy. The first observation of the matrix-isolated persulfoxides, e.g., Ph2SO2, was achieved. Isotopic labeling expts. using 18O2 and 16O2 and 16O-18O provided confirming evidence for the persulfoxide structure of the intermediates.

IT111904-26-8P

> RL: PRP (Properties); PREP (Preparation) (formation and IR spectrum of)

> > Page 55

RN 111904-26-8 CAPLUS

Sulfonium, hydroperoxydiphenyl-, inner salt, labeled with oxygen-18 (9CI) CN (CA INDEX NAME)

L3ANSWER 36 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:6760 CAPLUS

DOCUMENT NUMBER: 108:6760

ORIGINAL REFERENCE NO.: 108:1273a,1276a

TITLE: Synthesis and characterization of deuterated

poly(arylene ether sulfones)

AUTHOR(S): Hedrick, J. L.; Dumais, J. J.; Jelinski, L. W.;

Patsiga, R. A.; McGrath, J. E. Almaden Res. Cent., IBM, San Jose, CA, 95120-6099, USA CORPORATE SOURCE:

Journal of Polymer Science, Part A: Polymer Chemistry SOURCE:

(1987), 25(8), 2289-300

CODEN: JPACEC; ISSN: 0887-624X

DOCUMENT TYPE: Journal LANGUAGE: English

Selectively deuterated poly(arylene ether sulfones) were prepared for neutron scattering studies and for deuterium NMR investigations. The availability of these model macromols. permitted mol.-level identification of the motions responsible for the low-temperature relaxations that were observed

in the dynamic mech. spectra of these engineering polymers. Three labeled sites on the appropriate monomers (bisphenol A and 4,4'-dichlorodiphenyl sulfone) were prepared from deuterated intermediates and characterized via chromatog., spectroscopic, and thermal analyses. The deuterium exchange between Me and aromatic sites that occurred during synthesis was quantified. These labeled monomers were mixed with hydrogenous monomers to synthesize the high-mol-weight title polymer. A synthetic technique involving N-methyl-2-pyrrolidone/K2CO3 was employed to afford high-mol.-weight polymers. The polymers were characterized by Fourier-transform IR, proton, carbon, and deuterium NMR, intrinsic viscosities, and thermal anal. Mol. wts. of the labeled polymers were similar to unlabeled systems.

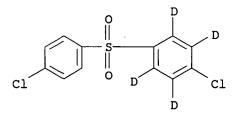
IT 92739-59-8P

RL: PREP (Preparation)

(preparation and characterization of)

RN 92739-59-8 CAPLUS

CN Benzene-1,2,4,5-d4, 3-chloro-6-[(4-chlorophenyl)sulfonyl]- (9CI) (CA INDEX NAME)



L3ANSWER 37 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

07/16/2008

ACCESSION NUMBER:

1986:443645 CAPLUS

DOCUMENT NUMBER:

105:43645

ORIGINAL REFERENCE NO.:

105:7245a,7248a

TITLE:

Molecular basis of the β -transition in

poly(arylene ether sulfones)

AUTHOR (S):

Dumais, J. J.; Cholli, A. L.; Jelinski, L. W.;

Hedrick, J. L.; McGrath, J. E.

CORPORATE SOURCE:

AT and T Bell Lab., Murray Hill, NJ, 07974, USA

SOURCE:

Macromolecules (1986), 19(7), 1884-9

CODEN: MAMOBX; ISSN: 0024-9297

DOCUMENT TYPE:

Journal

LANGUAGE:

English

The mol. basis for the β -relaxation in poly(arylene ether sulfones) is established by deuterium NMR studies on specifically deuterated structures. The primary mode of motion of the aromatic rings in these polymers is 180° Ph ring flips. These flips occur with a broad distribution of characteristic frequencies (.apprx.102-107 s-1). antiplasticizers decrease the magnitude of the β -relaxation and lead

to a significant loss in ductile mech. properties. Antiplasticizers also markedly reduce the rate of Ph ring flips, thereby establishing this type of Ph motion as a mol.-level process contributing to the β -relaxation. Other details of motion in these polymers are also

addressed.

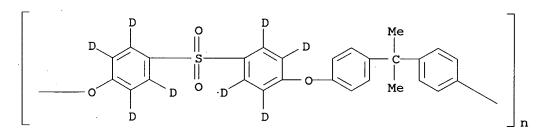
ΙT 102438-57-3 102438-61-9

RL: PROC (Process)

(relaxation of, mol. basis for)

RN 102438-57-3 CAPLUS

Poly[oxy-1,4-phenylene-2,3,5,6-d4-sulfonyl-1,4-phenylene-2,3,5,6-d4-oxy-CN 1,4-phenylene(1-methylethylidene)-1,4-phenylene] (9CI) (CA INDEX NAME)

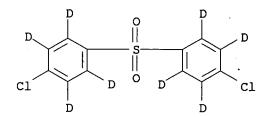


RN 102438-61-9 CAPLUS

Phenol, 4,4'-(1-methylethylidene)bis-, compd. with 3,3'-sulfonylbis[6chlorobenzene-1,2,4,5-d4] (9CI) (CA INDEX NAME)

CM 1

102438-60-8 CRN CMF C12 C12 D8 O2 S



CM 2

CRN 80-05-7 CMF C15 H16 O2

L3 ANSWER 38 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:

1985:181843 CAPLUS

DOCUMENT NUMBER:

102:181843

ORIGINAL REFERENCE NO.:

102:28479a,28482a

TITLE:

Estimation of reserve albumin equivalent concentration

for binding of bilirubin

AUTHOR(S):

Brodersen, Rolf

CORPORATE SOURCE:

Inst. Med. Biochem., Univ. Aarhus, Aarhus, DK-8000,

Den.

SOURCE:

Neonat. Jaundice, [Proc. Meet.] (1984), Meeting Date 1983, 55-61. Editor(s): Rubaltelli, Firmino F.; Jori,

Giulio. Plenum: New York, N. Y.

CODEN: 53JUAL

DOCUMENT TYPE:

Conference

LANGUAGE:

English

AB The determination of albumin bound to plasma bilirubin is discussed as a measure

of free bilirubin concentration and, thus, of plasma bilirubin toxicity, especially in

infants treated with sulfonamide for jaundice and respiratory distress. The binding equilibrium of albumin, bilirubin, and their complexes with each other and sulfonamide were investigated. Albumin binding curves do not have a level of saturation, but show a continuously upward trend. Thus, a new parameter, the reserve albumin equivalent, is defined and the method was used to measure reserve albumin concentration in infant plasma by using [14C]monoacetyl diaminodiphenylsulfone in a dialysis experiment as a substitute for bilirubin.

IT 96156-35-3

RL: ANST (Analytical study)

(in reserve albumin equivalent for bilirubin binding determination)

RN 96156-35-3 CAPLUS

CN Acetamide, N-[4-[(4-aminophenyl)sulfonyl]phenyl]-, labeled with carbon-14

(9CI) (CA INDEX NAME)

ANSWER 39 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1984:571859 CAPLUS

DOCUMENT NUMBER: 101:171859

ORIGINAL REFERENCE NO.: 101:26009a,26012a

TITLE: Synthesis and characterization of deuterated

poly(arylene ether sulfones)

AUTHOR(S): Hedrick, J. L.; Patsiga, R. A.; McGrath, J. E.

Dep. Chem. Polym. Mater., Virginia Polytech. Inst. and State Univ., Blacksburg, VA, 24061, USA CORPORATE SOURCE:

Polymer Preprints (American Chemical Society, Division SOURCE:

of Polymer Chemistry) (1984), 25(2), 88-90

CODEN: ACPPAY; ISSN: 0032-3934

DOCUMENT TYPE:

Journal LANGUAGE: English

Selectively deuterated bisphenol A (I) and 4,4'-dichlorodiphenyl sulfone were synthesized and used to prepare partially deuterated poly(arylene ether sulfone)s containing 3.5-20% D. M.ps. and Rf values from TLC anal. indicated that pure monomers (compared to com. samples) were prepared and structures were confirmed by NMR and Fourier-transform IR techniques. A D-exchange with the HCl catalyst produced partially deuterated I in which 50% of the isopropylidene linkages was deuterated or the Ph groups had D only in the 3,3',5, and 5' positions.

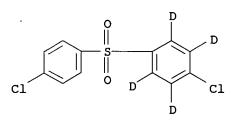
IT 92739-59-8P

> RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and polymerization of, with bisphenol A and deuterated bisphenol A)

92739-59-8 CAPLUS RN

Benzene-1,2,4,5-d4, 3-chloro-6-[(4-chlorophenyl)sulfonyl]- (9CI) (CA CN INDEX NAME)



ANSWER 40 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1982:52216 CAPLUS

DOCUMENT NUMBER: 96:52216

07/16/2008

ORIGINAL REFERENCE NO.:

96:8601a,8604a

TITLE:

Reaction of benzothiazoline with benzyne. Generation

of the novel heterocyclic sulfur ylide,

benzothiazolinium S-ylide

AUTHOR(S):

Hori, Mikio; Kataoka, Tadashi; Shimizu, Hiroshi; Ueda,

Norihiro

CORPORATE SOURCE:

Gifu Coll. Pharm., Gifu, 502, Japan

SOURCE:

Tetrahedron Letters (1981), 22(32), 3071-4

CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 96:52216

GΙ

AΒ Reaction of the benzothiazoline I with benzyne, formed by treatment of o-BrC6H4F with Mg (room temperature, 4 h, THF), gave the benzothiazolines II (R = H, F) (34, 31%, resp.) and 18% o-PhSC6H4NHMe. The mechanism involved the formation of the heterocyclic S ylide III, which underwent a 1,2-intermol. shift to give II (R = H).

IT 80335-41-7P 80335-45-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

80335-41-7 CAPLUS RN

CN Benzenamine, N-methyl-2-(phenyl-2-d-thio)- (9CI) (CA INDEX NAME)

80335-45-1 CAPLUS RN

Benzenamine, N-methyl-N-phenyl-2-(phenyl-2-d-thio)- (9CI) (CA INDEX NAME) CN

L3 ANSWER 41 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1979:121110 CAPLUS

DOCUMENT NUMBER: 90:121110

ORIGINAL REFERENCE NO.: 90:19163a,19166a

TITLE: Labeling of N-(2-diethylaminoethyl)-S,S-

diphenylsulfoximine with carbon-14 in the side chain

and the phenyl rings

AUTHOR(S): Liedtke, B.; Vollmer, K. O.

CORPORATE SOURCE: Abt. Biochem., Goedecke Res. Inst., Freiburg/Br., Fed.

Rep. Ger.

SOURCE: Journal of Labelled Compounds and Radiopharmaceuticals

(1978), 14(6), 825-33

CODEN: JLCRD4; ISSN: 0362-4803

DOCUMENT TYPE: Journal LANGUAGE: German

OTHER SOURCE(S): CASREACT 90:121110

AB Ph2S(0):N14CH2CH2NEt2 was prepared (44.6% based on Ba14CO3) from acetic-carboxy-14C acid in 6 steps through substitution reaction of Et2NCH214CH2Cl with Ph2S(0):NH. Sequential treatment of C 14 labeled benzene with SOCl2-AlCl3, NaN3 in polyphosphoric acid, and Et2N(CH2)2Cl

gave 30.4% Ph2S(O):N(CH2)2NEt2-phenyl-14C.

IT 69490-47-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 69490-47-7 CAPLUS

CN Sulfoximine, N-[2-(diethylamino)ethyl]-S,S-diphenyl-, labeled with carbon-14 (9CI) (CA INDEX NAME)

$$Ph-S=N-CH_2-CH_2-NEt_2$$
Ph

IT 69490-45-5P 69490-46-6P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as intermediate in carbon-14-labeled (diethylaminoethyl)diphenylsulfoximine preparation)

RN 69490-45-5 CAPLUS

CN Benzene, 1,1'-sulfinylbis-, labeled with carbon-14 (9CI) (CA INDEX NAME)

RN 69490-46-6 CAPLUS

CN Sulfoximine, S,S-diphenyl-, labeled with carbon-14 (9CI) (CA INDEX NAME)



ANSWER 42 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1974:10233 CAPLUS

DOCUMENT NUMBER: 80:10233

ORIGINAL REFERENCE NO.: 80:1657a,1660a

Metabolism of dapsone in man and experimental animals.

Formation of N-hydroxy metabolites

Israili, Z. H.; Cucinell, S. A.; Vaught, J.; Davis, AUTHOR(S):

E.; Lesser, J. M.; Dayton, P. G.

CORPORATE SOURCE: Sch. Med., Emory Univ., Atlanta, GA, USA

SOURCE: Journal of Pharmacology and Experimental Therapeutics

(1973), 187(1), 138-51

CODEN: JPETAB; ISSN: 0022-3565

DOCUMENT TYPE: Journal LANGUAGE: English

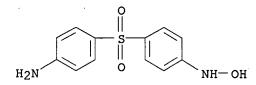
In human subjects receiving oral doses of labeled dapsone (I) [80-08-0] or diformyl dapsone (II) [6784-25-4], N-oxidation was a major metabolic route and the urine was a major excretory route. One of the primary urinary N-oxidation metabolites was characterized as azoxydapsone [35040-12-1]. new metabolite, 4-acetylamino-4'-hydroxylaminodiphenylsulfone [32604-86-7], was also identified. The blood plasma half-life was about 1 day for both I and II. N-oxidation metabolites accounted for a small fraction of the I dose in the urine and liver of guinea pigs and rats; the amount in the bile was higher. Of the various I metabolites and derivs. tested, only the hydroxylamines were significantly active in producing methemoglobin in vitro. As would be expected from their lipid solubility, I and 4-amino-4'-hydroxyaminodiphenylsulfone [32695-27-5] rapidly penetrated into isolated human erythrocytes.

IT 50444-14-9P

> RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 50444-14-9 CAPLUS

Benzenamine, 4-[(4-aminophenyl)sulfonyl]-N-hydroxy-, labeled with tritium CN (CA INDEX NAME)



L3 ANSWER 43 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1972:405095 CAPLUS

DOCUMENT NUMBER: 77:5095 ORIGINAL REFERENCE NO .:

77:895a,898a

TITLE: Synthesis and characterization of carbon-14 labeled

4,4'-diaminodiphenyl sulfone (dapsone-14C; DDS-14C)

AUTHOR(S): Blackburn, C. E.; Glazko, A. J.

CORPORATE SOURCE: Dep. Pharmacol., Parke-Davis Co., Ann Arbor, MI, USA

SOURCE: Journal of Labelled Compounds (1972), 8(1), 63-70

CODEN: JLCAAI; ISSN: 0022-2135

DOCUMENT TYPE: Journal LANGUAGE: English

,4'-Diaminodiphenyl-14C sulfone was prepared in 4 steps from uniformly

14C-labeled aniline-HCl via acetanilide-phenyl-14C, 4,4'-

bisacetamidodiphenyl-14C sulfoxide, and 4,4'-bisacetami-dodiphenyl-14C sulfone.

ΙT 36639-38-0

RL: RCT (Reactant); RACT (Reactant or reagent)

(hydrolysis of)

RN36639-38-0 CAPLUS

Acetamide, N,N'-(sulfonyldi-4,1-phenylene)bis-, labeled with carbon-14 CN (CA INDEX NAME)

IT36639-37-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(oxidation of, sulfone from)

RN 36639-37-9 CAPLUS

Acetamide, N,N'-(sulfinyldi-4,1-phenylene)bis-, labeled with carbon-14 CN

(CA INDEX NAME)

IT 36639-39-1P

> RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 36639-39-1 CAPLUS

CN Benzenamine, 4,4'-sulfonylbis-, labeled with carbon-14 (9CI) (CA INDEX NAME)

L3 ANSWER 44 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:

1969:459482 CAPLUS

DOCUMENT NUMBER:

71:59482

ORIGINAL REFERENCE NO.:

71:10935a,10938a

TITLE:

Whole-body autoradiographic studies on the

distribution of radioisotopes. XVI. Distribution of

tritium labeled new antitoxoplasmic agent,

2-sulfamoyl-4,1-diaminodiphenyl sulfone (3H-SDDS) in

mice

AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

Sakuma, Mari; Sato, Yoshishige Tanabe Seiyaku Co., Ltd., Japan

Radioisotopes (1969), 18(4), 143-7

CODEN: RAISAB; ISSN: 0033-8303

DOCUMENT TYPE:

LANGUAGE:

Journal Japanese

SDDS-3H (I) was administered i.p., orally, and i.m. into mice and its distribution in the body was examined by whole-body autoradiography. The rate of distribution of the radioactivity was greater by oral and i.p. administration than by i.m.; the activities were distributed evenly in all the organs and tissues, except in the central nervous system; maximum incorporation occurred in 3-5 hrs. after its administration, followed by loss of the activity in 24 hrs. It was excreted mainly through bile and urine. The activity of I was also distributed evenly in the tissues of the fetus and placenta.

IT 25451-80-3

> RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(metabolism of)

RN 25451-80-3 CAPLUS

CN Metanilamide-4-d, 6-(sulfanilyl-3,5-d2)- (8CI) (CA INDEX NAME)

L3 ANSWER 45 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1968:511681 CAPLUS

DOCUMENT NUMBER: 69:111681

ORIGINAL REFERENCE NO.: 69:20919a,20922a

TITLE: Infrared spectra of benzene- and

pentadeuterobenzenesulfonyl compounds

AUTHOR(S): Uno, Toyozo; Machida, Katsunosuke; Hanai, Kazuhiko

CORPORATE SOURCE: Fac. Pharm. Sci., Kyoto Univ., Kyoto, Japan

SOURCE: Spectrochimica Acta, Part A: Molecular and

Biomolecular Spectroscopy (1968), 24(11), 1705-12

CODEN: SAMCAS; ISSN: 1386-1425

DOCUMENT TYPE: Journal LANGUAGE: English

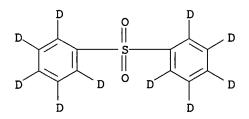
AB The ir spectra 4000-400 cm.-1 of benzenesulfonamide, benzenesulfonanilide, benzenesulfonyl chloride, and diphenyl sulfone are reported together with the spectra of the corresponding pentadeuterobenzenesulfonyl compds. The isotopic shift of the characteristic bands near 1090 cm.-1 of benzenesulfonyl compds. gives evidence of the assignment of this band to a mixed mode of the C-S stretching and a ring skeletal vibration. The benzene and deuterobenzene ring frequencies of these compds. are in close correspondence with those of chlorobenzene and chlorobenzene-d5. The effects of the N-deuteration and the ring deuteration on the SO2 group frequencies are discussed.

IT 21885-27-8

RL: PRP (Properties) (spectrum (ir) of)

RN 21885-27-8 CAPLUS

CN (Phenyl sulfone)-d10 (8CI) (CA INDEX NAME)



L3 ANSWER 46 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1968:476394 CAPLUS

DOCUMENT NUMBER: 69:76394

ORIGINAL REFERENCE NO.: 69:14251a,14254a

07/16/2008

TITLE:

Skeletal rearrangements in mass spectra. I. Bis-aryl

compounds

AUTHOR(S):

Wszolek, P. C.; McLafferty, F. W.; Brewster, J. H.

CORPORATE SOURCE: Purdue Univ., Lafayette, IN, USA

SOURCE:

RN

Organic Mass Spectrometry (1968), 1(1), 127-37

CODEN: ORMSBG; ISSN: 0030-493X

DOCUMENT TYPE:

Journal English

LANGUAGE: Engl

AB Examination of a large number of spectra indicates that diunsatd. compds. commonly

undergo a skeletal rearrangement in which part or all of the bridging moiety is eliminated, often with concomitant loss of H atoms. The spectra of labeled azobenzene, Ph2S, and their p,p'-dimethyl derivs. show that scrambling of H atoms precedes or accompanies such rearrangements, in contrast to the loss of a p-methyl group from the latter derivs. These results are rationalized in terms of the radical site formed on one unsatd. functional group attacking the polarizable π -electrons of the other unsatd. group. 24 references.

IT 20637-11-0 20637-13-2

RL: PRP (Properties)

(mass spectrum of) 20637-11-0 CAPLUS

CN (Phenyl sulfide) -2,2',4,4',6,6'-d6 (8CI) (CA INDEX NAME)

RN 20637-13-2 CAPLUS

CN (p-Tolyl sulfide) -2,2',6,6'-d4 (8CI) (CA INDEX NAME)

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07/16/2008

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